

Timeline Showing the Important Events of Burt's 80+ Year Life

At the top of the BRAB Table-of-Contents is a section called **Legacy**. This Timeline is now a part of that Section. **Legacy** will later be expanded to include a full descriptions of Burt's career historical significance.

Included are the First Flight Dates & Descriptions of every one of his 49 Manned Research Aircraft, his most-important Awards & many of his Life Experiences. Timeline shows the Chapters that include the event.

Event & Comments	Event Type	Date	Burt Age years	BRAB Chapt
Brother Dick born Richard- 5 years older than Burt	People	1-Jul-38	-5	1
Sister Nell born Nellie Ann is 1 year older than Burt	People	9-Mar-42	-1	1
Burt born in Portland Oregon. He is tired from the move :-)	People	17-Jun-43	0	1
1st school-Seventh-Day Adventist. K through 4th grade-Dinuba SDA. 5th through 9th-Fresno academy.	Educattion	15-Sep-49	6	2 & 85
Watched Disney "Man-in-Space" Age 12, Burt inspired by Walt & Werner von Braun on friend's TV	Experience	9-Mar-55	12	3
Built controline endurance model Wingspan was 9-feet. Endurance limited by dizzy pilot.	Milestone	1-Jan-56	13	4
First WAM contest- won trophies, even competed against adults. Western Associated Modelers. Maurer drove kids to Bay area.	Competition	1-May-56	13	4
Burt's early aviation inspiration: "Spirit of St Louis" movie SDA's cannot go to movies, Movie screened at Church School'	Experience	1-Apr-57	14	2

AMA 1959 Nats. Burt's 1st National model contest. F-27 model won C/L Scale At Los Alamitos in California	Competition	1-May-59	16	4
Burt soloed Aeronca Champ on 16th birthday, at crop duster field. Dick also soloed on 16th birthday	Milestone	17-Jun-59	16	5
No ride to Fresno church school, so Burt enters Public Schooling. Dinuba Joint Union High School. sophmore to HS graduation.	Educattion	15-Sep-59	16	6 & 85
AMA 1960 Dallas Nationals. Burt's 2nd NATs. Drove to Texas with Mom. Entered 9 models .	Awards	1-Jun-60	17	4
Graduates from Dinuba HS. Grades good enough to be accepted at Cal Poly college, but not good enough 20 years later .	Education	9-Jun-61	18	6 & 85
Enters Cal Poly College. Lived at Lassen Dorm on campus Aeronautical Engineering major	Education	10-Sep-61	18	7 & 85
Pop visits Burt at Cal Poly, brings Burt's girlfriend Judy. Conceived on campus. The 'pill' had been invented, but were not given to teens.	Experience	14-Oct-61	18	88
Burt married Judy, his first wife The source of 3 Grand children & 8 Great grands. She was 17 then, a Dinuba High School student.	People	15-Jan-62	19	88
Son Jeffery Albert born While Burt was in first year at Cal Poly College.	People	8-Aug-62	19	88

Attends Cal Tech, Space Technology Institute Pasadena.	Education	1-Jul-64	21	7 & 85
First Canard projects: Six-inch pitch axis model in CP wind tunnel & FX-935 RC model	Milestone	1-Sep-64	21	17
X-15 pilot USAF Capt Joe Engle met Burt at Cal Poly. Inspired to make Flight Test his 1st after-college job .	Met	1-Oct-64	21	7 & 9
AIAA Aircraft Design Award First place, National Student Undergraduate Design	Competition	20-Nov-64	21	85
Graduates from Cal Poly. Bachelor's degree engineering. Third in class. No interest in masters or doctoral degrees.	Education	15-Jun-65	22	7 & 85
Start work as Flight Test Engineer at Edwards Air Force Base. First job- Tri-Service VSTOL test team. XC-142A cargo acft	USAF	16-Jul-65	22	9 & 11
Met Werner von Braun at pre-Award party, AIAA. Both got awards- me for Student design, him for Apollo	Met	28-Jul-65	22	63
Daughter Dawn Annett born. Two months after Cal Poly college graduation .	People	30-Aug-65	22	88
Aerospace Research Pilot School. Academic portion of USAF Test Pilot's School.	Educattion	1-Sep-65	22	9 & 85

Flight testing at U.S. Naval Aerospace Recovery Facility, El Centro Calif. Until May, 67 C-130 LAPES testing, C-130 & XC-142 airdrops.	Project	23-Feb-66	23	11 & 12
Posted "Lickity split Pete, fastest man alive" banner. At Pete Knight's desk after his Mach 6.7 flight in the X-15.	Experience	3-Oct-67	24	9
Mike Adams fatal X-15 flight. Loss-of-Control during descent. Burt witnessed it live at Edwards AFB.	Experience	15-Nov-67	24	9
Flew with F-4 Thunderbirds at Nellis, to eval longitudinal imbalance- a Burt invention.	Experience	2-Feb-68	25	13
Golden Gate College Personnel Management & Marketing classes at EAFB.	Education	1-May-68	25	85
Begin building VariViggen Burt's first airplane, a wood canard homebuilt.	Project	5-May-68	25	20
Divorced from 1st wife Judy She then moved son & daughter out of California .	People	1-Nov-68	25	88
Centrifuge for Spin/Departure sim. To prepare for F-4 spin tests. Johnsville Centrifuge, Warminster, PA. Burt & Jerry Gentry were tumbled there.	Experience	3-Mar-70	27	13

F-4 Phantom recovery from flat spin. Spin chute operated properly. Burt in back seat. No other F-4 flat spin was ever followed by a landing	Experience	11-Jun-70	27	13
F-4E spin aircraft crashed when it had a 2nd flat spin. Spin chute failed at line stretch. Began spin at 36kft. Maj Gentry & Lt McElroy ejected at 14k ft.	Experience	22-Jun-70	27	13
Burt awarded USAF Air Medal For F-4 flight testing, a rare Medal for a civilian. Lindbergh has one. 1-Oct-69 to 7-Aug-70	Award	31-Aug-70	27	85
Brief all USAF F-4 pilots. Until Dec 12th 1970 How to avoid departure accidents. 49 briefings from Thailand to Turkey & CONUS	Talks	6-Sep-70	27	14
Met the recluse Charles Lindbergh at SETP banquet. He had agreed to attend only if only 4 people knew. Burt shook his hand & chatted	met	15-Sep-70	27	65
Temporary Duty at St Louis McDonnell Aircraft. Five months TDY in Missouri- plan the stability flight tests of F-15 Fighter.	Project	13-Jul-71	28	15
Married 2nd wife Carolyn Weaver. She was a McDonnell programmer. While TDY in St Louis to plan F-15 flight tests.	People	16-Sep-71	28	88

Quit USAF to join Bede Aircraft, Newton, Kansas. Moved from CA to Valley Center, KS. Job is Director of Development.	Bede Job	15-Mar-72	29	18
First flight of VariViggen, a wood canard with natural stall avoidance. Burt's first airplane.	First Flight	5/24/72	29	20
First real flight of a BD-5. At Newton, KS. Burt directs all flight test programs. Earlier "flights" were only brief hops.	First Flight	11-Jul-72	29	18
Flew McDonnell's F-4 test pilot Irv Burrows in VariViggen at McDonnell aircraft, St Louis. No intercom, Burrows panics- closely circling Control Tower.	Experience	5-Aug-72	29	13 & 20
Les Berven crashed the dangerous short-wing BD-5A. Could not flare, after engine failure. Killed mouse in ditch.	Experience	8-Oct-72	29	18 & 31
Photo shoot for BD-5 article In the May, 1973 issue of Playboy magazine, at Bede test center. Les Berven flew with a wig for the flying photo.	Photos	14-Feb-73	30	71
Burt assigned job to develop the BD-5J. Burt's 2nd manned aircraft design. Burt designed the jet & managed development .	Project	1-Apr-73	30	18
Bede jet BD-5J's first flight. The jet flew at Oshkosh only 8 days after 1st flight in Kansas.	First Flight	20-Jul-73	30	18

<p>Moon Landrieu awards Burt "Key to city" of New Orleans. Airshow with USAF Thunderbirds. VariViggen painted like TB's with "Thunder Chicken" logo.</p>	Award	9-Nov-73	30	20
<p>VariViggen forced landing in an Idaho mud field after engine failure. Near Burley, ID. Had stopped to visit Jeff & Dawn on way to see Molt Taylor.</p>	Experience	19-Nov-73	30	18 & 20
<p>BD-5T trainer first flight. Burt had responsibility to design the unique 'truck-a-plane '</p>	First Flight	14-Feb-74	31	18
<p>Burt becomes second pilot to fly a propeller BD-5. Les Berven had previously flown all flights.</p>	Experience	19-Apr-74	31	18
<p>Bede's DC-3 lands safely after midnight engine fire over Lake Michigan. At 2am we called EAA Poberezny to repair it. He hand-props DC-3. Then on to PA airshow.</p>	Experience	6-Jun-74	31	18 & 31
<p>Quit Bede to start RAF. Had looked at many cities in uncle's Europe. Selected Mojave for its low cost & perfect flight test environment.</p>	Corp	19-Jun-74	31	19
<p>Awarded EAA Oshkosh Outstanding New Design trophy. 4 times: 1974, 1975, 1976 & 1978</p>	Award	2-Aug-74	31	31 & 85
<p>First time VariViggen was at Oshkosh with Burt as a RAF entrepreneur. VariViggen flew 10 hours in evening airshows.</p>	Award	4-Aug-74	31	20 & 31

Relocate VariViggen & Dodge Dart from Kansas to Mojave. With Carolyn, Jetta & Kye- to start the RAF business	Event	31-Aug-74	31	19
Burt flew VariViggen as stunt pilot in movie "Death Race 2000". Was paid \$750. Told movie pilot Frank Tallman he could use the V V only if I was the stunt pilot.	Experience	1-Oct-74	31	21
First flight of Model 31 VariEze POC. The Proof-of-Concept V E. VW engine. Smaller than homebuilt Model 33 VariEze.	First Flight	5/21/75	20	22
Hosted C. G. Taylor & Eldon Cessna in VariEze POC at Oshkosh. Forerunner of Piper Cub & Son of Cessna founder.	Met	3-Aug-75	20	31
VariEze POC, set new distance record at Oshkosh. Dick flew Proof-of-Concept V E on a distance record flight .	Record	4-Aug-75	20	22 & 31
First flight of Model 33 VariEze The homebuilder's V E. RAF sold plans. ASAS & Wicks sold kits.	First Flight	14-Mar-76	21	22
NASA's Richard Whitcomb realized VariEze winglets were indeed correct. Winglet inventor had said Burt's winglets were likely not designed correct. Convinced him at Oshkosh.	Met	5-Aug-76	21	31
First flight of Model 54 Single-place Quickie. Onan-powered. 100 mpg. QAC marketed the kit.	First Flight	17-Nov-77	23	22

Burt designs twin-engine aircraft for Pug Piper. Then declined to certify it. Built M-40 Defiant as his personal twin homebuilt.	Project	14-Dec-77	23	24
Burt designed Navy Jet Wingship, PARLAC Power-Augmented-Ram Landing Craft Tested at Bayview.	First Flight	15-Dec-77	23	25
Divorced from 2nd wife Carolyn. Wonderful marriage. Co-founded RAF. Her girls: Jetta & Kye.	People	1-Jun-78	23	88
First flight of Defiant twin Model 40. Burt's most hours as PIC. Finally sold plans mid-1984	First Flight	30-Jun-78	23	24
Met girlfriend Pat Storch. Helped start Scaled Composites company. Friend of Melvills. Girlfriend for five years- Aug 78 to July 83.	People	1-Aug-78	23	88
Dick Rutan retires from USAF & joins RAF Dick leaves RAF in 1981, to do Voyager RTW-NR project with Jeana Yeager.	People	15-Aug-79	24	19 & 29
First flight of Model 61 LongEZ. Most popular homebuilt design. Long Range. Lycoming engine.	First Flight	15-Sep-79	25	22
Oblique-wing AD-1 for NASA Wing skews zero to 60-degrees. Burt designed AD-1 in 1978. Built by AIC. Last flight was 7Aug82 at Oshkosh	First Flight	21-Dec-79	25	25

RAF employees vote on what to build next. Decided to do sailplane. Dick wanted aerobatic airplane. Then Dick quits RAF	Meeting	15-Mar-81	26	19 & 28
Non-Refueled-World-Flight challenge unveiled to Dick & Jeana. Milestone/Voyager possibility presented, Instead of aerobatic design.	Milestone	1-Apr-81	26	29
Burt designs Voyager for Milestone flight. D & J start Voyager Aircraft Inc & look for a Big-\$ sponser	Project	15-Apr-81	26	29
First flight of Amsoil Model 35 To compete in Reno biplane race. Burt design, Dan Mortensen built.	First Flight	15-Aug-81	26	26
Next-Generation-USAF-Trainer, Model 73. POC, 62% scale Fairchild contract with RAF, to demo stability & departure risk.	First Flight	10-Sep-81	27	27
RAF contract to develop NGBA (Next-Gen-Business-Aircraft). Later called Starship. Beech Aircraft contracted RAF for preliminary design. Goal was to replace KingAir.	Project	16-Oct-81	38	34
4-Star Gen Curtis Lemay surprise private visit to Burt. Visit reason unknown.	Met	1-Jan-82	39	19 & 63
Special Achievement Laurels for 1981, Aviation Week.	Award	15-Jan-82	39	85
First flight Model 72 Grizzly. Four-place STOL BushPlane.	First flight	20-Jan-82	39	28

<p>Solitaire sailplane Model 77. Self-launch sport sailplane. First flight.</p>	First Flight	28-May-82	39	28
<p>Scaled Composites Inc founded with girlfriend Pat Storch & Herb Iverson (from AIC).</p>	Corp	1-Jun-82	39	33
<p>Dick & Jena fail to find big \$ Sponser for Voyager. RAF contract with VAI. RAF agrees to finance Voyager & split any post-Milestone income.</p>	Project	2-Jun-82	39	29
<p>RAF hires Bruce Evans & starts Voyager construction. Build team is Bruce, Dick, Jeana, Mike Melvill, Sally & Burt.</p>	Project	1-Jul-82	39	29
<p>Tom Jewett dies in 'Big Bird' crash at Mojave. Round-the-World -without-Refuel, By QAC. Dick, out jogging, witnesses the crash.</p>	Experience	2-Jul-82	39	22
<p>Met Colin Chapman, CEO Lotus Motors. Start design of Model 97 Microlite. Colin sat in EZ at Oshkosh. Burt toured Lotus factory in Norfolk, England.</p>	Met	4-Aug-82	39	63
<p>Shot a game of Pool alone with Paul Newman. Party at Caesars Palace suite. During the F-1 race in Vegas.</p>	Experience	1-Sep-82	39	63
<p>Microlite Model 97. The first project for Scaled Composites. Customer Colin Chapman CEO Of Lotus. So he could overfly traffic on F-1 race events.</p>	First Flight	30-Jan-83	40	45

Wide-chord flap suspension. U.S. Patent Number 4,614,320	Patent	1-Jul-83	40	85
Starship 85%-scale POC flies. Model 115 Proof-of-Concept. SCAT -- Scaled Composites Advanced Turboprop.	First Flight	29-Aug-83	40	34
Voyager first flight, in the Concept-Validation configuration. No avionics. Lycoming engines. Flying qualities good.	First Flight	22-Jun-84	41	29
Predator crop duster. Model 120 For ATAC. O-720 8-cyl Lycoming. Crash protection cockpit	First Flight	17-Sep-84	41	45
Burt marries 3rd wife. This one was a mistake. Margaret Rembleske, Daughter of Beech VP.	People	20-Nov-84	41	88
Starship variable-geometry, high-lift system. US Patent Number 4,614,800	Patent	1-Jan-85	42	85
Starship Model 115 Configuration. US Patent Number Des,292,393	Patent	2-Jan-85	42	85
RAF discontinues all homebuilt plans sales. To focus on Scaled & to limit future liability exposure.	Corp	15-Jun-85	42	19
Raytheon/Beech Aircraft buys Scaled Composites. Scaled will now be the 'research center' for Beech Aircraft Inc. Jim Walsh is Beech CEO.	Corp	15-Jul-85	42	33
Cruise to see Halley's comet with Margaret & John Roncz. Needed southern hemisphere to view it. Barely visible. Once-in-lifetime experience.	Experience	1-Feb-86	43	70

Burt named ABC's "Person of the Week" ABC World News Tonight.	Award	18-Jul-86	43	85
Burt divorced 3rd wife Margaret. She wanted kids, but vasectomy reversal operation failed .	People	15-Sep-86	43	88
Burt Lunch with Clyde Tombaugh & Glenn Seaborg. Discovered Planet Pluto & Element Plutonium. AAA event, Washington DC	Met	1-Oct-86	43	64
Met 4th wife Tonya Simone. Blind date arranged by Dick's ex-wife & Tonya's Mom. Married Nov 7th 1993. Still happily married in 2024. "Her first, His last".	People	15-Oct-86	43	88
Douglas 'Wrong Way' Corrigan. Visited Voyager before World Flight. Advised us on avoiding Gov regs.	Met	1-Nov-86	43	29 & 60
Voyager Milestone flight. Takeoff & landing at Edwards Air Force Base Non-refueled flight was 9 days: December 14th to 23rd, 1986.	Milestone	14-Dec-86	43	29
First grandchild born during the Voyager Milestone flight. Whitney Dawn Davis, born as Voyager was flying over the Philippine Islands.	People	17-Dec-86	43	88 & 89

<p>Presidential Citizen's Medal. Presented for Voyager flight by Ronald Reagan during Iran-Contra. Rare award at the time.</p>	Award	29-Dec-86	44	85
<p>Burt, Dick & Jeana awarded Grand Medal City of Paris, Aero Club d France. Same medal was awarded to Charles Lindbergh in 1927.</p>	Award	29-Jan-87	44	85
<p>CM-44 Model 144. Proprietary mission for Calif Microwave company. Similar configuration as LongEZ .</p>	First Flight	27-Feb-87	44	36
<p>Burt, Dick & Jeana awarded the NAA Collier Trophy. The most prestigious award in aerospace. For Voyager milestone</p>	Award	5/15/87	44	85
<p>Doctoral of Science Honorary degree. Daniel Webster College, Nashua, NH</p>	Education	5/17/87	44	85
<p>Honorary Doctor of Science. Cal Poly. Burt also gave the Commencement Address. First Honorary Doctorate by Burt's Alma mater.</p>	Education	13-Jun-87	44	85
<p>AAA's Golden Plate- America's Captains of Achievement. American Academy of Achievement. For Voyager flight.</p>	Award	27-Jun-87	44	85
<p>Ralph Nader, 'Unsafe at any speed' Presented Golden Plate to Burt, Academy of Achievement event.</p>	Met	27-Jun-87	44	64 & 85

Doolittle Trophy from SETP. For Voyager milestone. For engineering or Management of Flight Test activity.	Award	15-Sep-87	44	85
Burt designated the "Aviation Man of the Year". Gathering of Eagles event.	Award	17-Sep-87	44	85
Lindbergh Eagle Charles Lindbergh Fund	Award	24-Sep-87	44	85
The City of Genoa, Italy Christofer Columbus Communications Medal.	Award	12-Oct-87	44	85
British Gold Medal for Aeronautics Royal Aeronautical Society. For Voyager program.	Award	1-Dec-87	44	85
Spirit of St Louis Medal American Society of Mechanical Engineers	Award	16-Dec-87	44	85
Advanced Tech Tactical Transport. ATTT/SMUT Model 133. For DARPA. Special Mission Utility Transport. Iran hostage rescue.	First Flight	29-Dec-87	45	36
Catbird Model 81 Five-place turbo Lycoming O-360. To win CAFÉ efficiency race. Operated by Zach Reeder.	First Flight	14-Jan-88	45	30
Burt designated the "Engineer of the Year". Design News.	Award	8-Mar-88	45	85
Burt awarded Doctoral of Humanities Honorary degree. Lewis University. Romeoville, Il.	Education	22-May-88	45	85

Triumph Model 143 Business Jet for Beechcraft. First Light-Light BizJet to fly. First flight also for FJ-44.	First Flight	12-Jul-88	45	38
Beech CEO Bleck sells Scaled To WUTTA, then to Walsh, CEO of Wyman Gordon. Second time that Walsh buys Scaled.	Corp	1-Nov-88	45	57
ATTT/SMUT Model 133b Bronco tail major mod to fix poor directional stability problem.	First Flight	15-Dec-88	45	36
Meritorious Service Medal Sec of the Air Force, USAF Scientific Advisory Board.	Award	15-Apr-89	46	85
Lunch with Michael Deaver American Academy of Achievement	Met	27-Jun-89	46	64 & 85
Mojave Pyramid custom home. Popular Science cover story- 'Ultimate Energy-Efficient Home'.	Project	15-Nov-89	46	72
Honorary Doctoral of Technology. Delft University of Technology.	Education	12-Jan-90	47	85
ARES Model 151. GAU-12 gun Asymmetrical inlet. Funded by Beech under Jim Walsh. Used for DOD tests.	First Flight	19-Feb-90	47	36
Lima 1 For Customer Toyota. Piper Aztec flight testbed for Lexus 8-cyl turbo geared engine.	First Flight	15-Apr-90	47	39
Flew Enstrom helicopter from Maine to Mojave. With Tonya, 12 hours after Rotary-Wing Private license. Six day flight.	Experience	15-Nov-90	47	71

Pond racer Model 158 Customer Bob Pond. For Reno Unlimited race competitions.	First Flight	22-Mar-91	48	47
Lima 2 Model 191 for Toyota. Far better than Bonanza. Four-place GA single. Lexus geared turbo engine. Quiet.	First Flight	4-Nov-91	48	39
Earthwinds RTW gondola Model 181 For Larry Newman. Helium with anchor balloon	First Flight	15-Nov-91	48	46
Burt is a judge for Dean Kaman's U S FIRST Competition. 1st High School competition of FIRST, which eventually grew to 1 million students.	Experience	1-May-92	49	63 & 73
Only RAF lawsuit that went to trial. Trial in Bakersfield. Aerobatics with drunk pilot. Jury destroyed Plaintiff lawyer & 8 got rides in VariEze .	Lawyers	5-Jun-92	49	61
Rapter D-1 Manned UAV. Model 226, for DOE. Saddle for first flights, then un-manned. Brilliant Pebble payload.	First Flight	9-May-93	50	36
Rode Glacier Park tour with Johnny Cash & June Carter Cash Academy of Achievement. Cash stopped the tour to hug a roadside fan.	Experience	25-Jun-93	50	64 & 63
Lunch with cartoonist Chuck Jones at AAA. Burt draws a Mojave Jackrabbit, then Jones draws an original C J cartoon.	Experience	26-Jun-93	50	64

Russian WingShip- DARPA Program. Two trips, Aug & Sep. Moscow, Nizhny Novgorod, Kaspic, Volga River. Learned Russian wingship Tech.	Program	9-Aug-93	50	69
Jet LEZ Vantage Model 61b. FJ107 engine. Proprietary.	First Flight	15-Aug-93	50	36
DCX sub-scale POC. Mcdonnell-Douglas DCY design. Vertical landed rocket, 25 years before Musk/SpaceX.	First Flight	18-Aug-93	50	42
Initial designs for manned spaceship with "Carefree reentry". Later, in 2000 one was built & called SpaceShipOne	Project	1-Jun-94	51	35
Rapter D-2 Model 226b Larger than Rapter D-1. For DOE	First Flight	24-Aug-94	51	36
George Lubin Memorial Award. SAMPE- Society for Advancement Material & Process Engineering.	Award	9-May-95	52	85
Burt leases GM/Saturn EV-1. He named it "Sparkie" Seven years before Tesla. Burt drove it for 7 years.	Experience	1-Jun-96	53	73
Boomerang Model 202, Burt's most significant design for General Aviation. Asymmetric twin. Safest GA acft in the world. Five-place. 260 KTAS cruise.	First Flight	19-Jun-96	53	24
Paul Allen & Vern Rayburn visit Scaled in Mojave, In his 757, to discuss broadband concept.	Met	1-Sep-96	53	35

VisionAir Vantage Model 247 Single-engine turbofan. Attempt at a low-cost BixJet.	First Flight	14-Nov-96	53	38
V-Jet II VLJ Model 271. Proof-of-Concept Revolutionary very-light jet. For FJX-1 engine, but flew with cruise missile engines.	First Flight	13-Apr-97	54	38
Chrysler Award for Innovation in Design.	Award	1-Oct-97	54	85
Global Hilton Round-the-World balloon gondola. Model 257. Launch from Albuquerque. Envelope failed during climb.	First Flight	15-Jan-98	55	46
Nile River trip to study Egypt pyramids & monuments. Fifteen days, Cairo to Abu Simbel. Pre-history civilization conclusion.	Experience	7-Feb-98	55	70 & 74
Burt's 2am heart attack, after dinner with family. Myocardial Infarction. Blocked artery to heart. First & only blockage.	Medical	6-Apr-98	55	67
Proteus Model 281. Wyman Gordon \$. High-time Rutan design. 65,000 ft loiter. Internet, before fiber in ground.	First Flight	26-Jul-98	55	43
Aviation Designer of the Year. Professional Pilot Magazine.	Award	13-Mar-99	56	85
Roton full-scale POC Atmospheric Test Vehicle. For Rotary Rocket to demo autorotation landing. Rockets on blade tips.	First Flight	15-Mar-99	56	42

Proteus included in "100 Best of the Century". Time Magazine .	Award	10-Apr-99	56	85
SS1 design concept invented "Feathered wings" on glider for atmosphere entry, then runway landing.	Patent	1-Jun-99	56	35
Scaled now an LLC, bought by nine investors. Buyers include Gruber, Mike, Burt & 36% by Northrop.	Corp	1-Feb-00	57	57
Kelly Johnson "Skunk Works" Engineers Council Award. "To honor Kelly's accomplishments".	Award	15-Feb-00	57	85
Adam 309 Model 309 Prototype Push-Pull Gen-Av twin for Rick Adam.	First Flight	21-Mar-00	57	39
Lindbergh Foundation Award For "Balance between Technical Advancement & Environmental Preservation" .	Award	20-May-00	57	85
Opened 'Soaring Over California' ride at Disneyland, on 1st day debut to public. Burt is the only displayed 'Famous California Aviator' still alive.	Event	8-Feb-01	58	70
Contract signed with Paul Allen for SpaceShipOne. Mojave AeroSpace Ventures- includes other space efforts .	Project	15-Mar-01	58	35

Burt & Bradley Waits sneak onto the ultra-private Cypress Point golf course. Hid a club in shirt/pants then hit balls across ocean on 16th hole.	Experience	23-Apr-01	58	68
AIAA Reed Aeronautics Trophy. AIAA, for Aircraft that challenge conventional wisdom.	Award	9-May-01	58	85
First flight Rodie M61-C Proprietary	First Flight	12-Aug-01	58	36
Laurel Legend Award Aviation Week Hall of Fame.	Award	16-Apr-02	59	85
TAA-1/Budgie for Toyota. Scaled did the flight test program, built tails & all systems. Wing & fuselage built by others.	First Flight	15-May-02	59	39
White Knight Model 318 To launch SpaceShipOne. Afterburning J-85 engines.	First Flight	20-Aug-02	59	35
Implanted heart defibrillator. First was 'Sparkie', 2nd 'Glimmer', 3rd 'KAD" Sept 16th 2019, (Kick-Ass Defib).	Medical	26-Nov-02	59	67
Unmanned Navy X47A flies at NAWS-China Lake. Then NGC got multi-billion \$ X-47B carrier-qualified UAV.	First Flight	23-Feb-03	60	41
US Provisional Patent Application. 60/458,296	Patent	28-Mar-03	60	85
US Provisional Patent Application. 60/458,697	Patent	28-Mar-03	60	85
SpaceShipOne unveiled at rollout. Program was covert for 2 years before this rollout.	Event	18-Apr-03	60	35

Business Leader in Aerospace Scientific American award, for SpaceShipOne program	Award	1-Jun-03	60	85
SpaceShipOne Model 316 First captive flight.	First Flight	15-Aug-03	60	35
Historic Supersonic flight- 1st SpaceShipOne rocket flight. 100 yr after Wright Brothers. First time a non-prime company developed a supersonic aircraft.	Milestone	17-Dec-03	60	35
GlobalFlyer Model 311 For solo RTWNR record. For Marathon/Fossett.	First Flight	1-Mar-04	61	44
"Unitized Hybrid Rocket Motor" Patent for SS1 rocket motor's design. US2004/009694	Patent	15-Mar-04	61	85
"Winged Spacecraft" Patent for SpaceShipOne's design. PCT/2004/009695	Patent	29-Mar-04	61	85
Two billionaires with Burt. Allen & Branson visit Mojave Pyramid, on eve of milestone. Asked "What do ya want to see before you die?" They are 10-years younger than Burt.	Meeting	20-Jun-04	61	35
Huge Milestone: The first non-government manned space flight. SS1 rockets > 100 km. Mike Melvill now an astronaut.	Milestone	21-Jun-04	61	35
Burt's second Doolittle Trophy from SETP. For Engineering or Management of Flight Test activity. Only person with two.	Award	20-Sep-04	61	85

Kelly Johnson Award Society of Flight Test Engineers	Award	25-Sep-04	61	85
SpaceShipOne wins 10M\$ X-prize-two flights in five days. Largest prize in aerospace. Allen shares half with Scaled. Each Scaled employee gets \$. SS1 flew 3 of the 5 world's manned space flights in 2004.	Award	4-Oct-04	61	35 & 85
Smithsonian NASM commits to display SS1 in the Milestones of Flight Gallery. Allen & Burt agree to cancel future flights.	Milestone	1-Nov-04	61	35
Charles A & Anne Morrow Lindbergh Medal. From the Lindbergh Foundation.	Award	6-Nov-04	61	85
"Rave Award" for Industrial Design Wired Magazine	Award	22-Feb-05	62	85
GlobalFlyer Capricorn makes first solo World Flight without refueling. Pilot is Steve Fossett. Model 311 later flew 2 more RTW-Non-Refueled flights.	Milestone	1-Mar-05	62	44
Smithsonian National Air & Space Museum. Current Year Achievement. - Paul & Burt.	Award	9-Mar-05	62	85
2004 Laurel Legend Award Aviation Week & Space Technology	Award	15-Mar-05	62	85
Scientist of the Year ARCS Achievement reward for College Scientists.	Award	15-Apr-05	62	85

Burt listed as one of "100 Most Influential People in the World" Time Magazine	Award	18-Apr-05	62	85
NAA Collier Trophy to Burt & SS1 team. Burt is only human alive to have 2 Collier trophies for individual accomplishment.	Award	1-May-05	62	35 & 85
Burt receives the Werner von Braun Memorial Trophy. National Space Society.	Award	1-May-05	62	85
Space Symposium on World Ship ResidenSea, docked at Barcelona. Peter Diamandis organizer, with Buzz Allen. Hosted by Ansari.	Talks	20-Jun-05	62	70 & 56
Howard Hughes Memorial Award Burt is 27th Recipient	Award	26-Jan-06	63	85
Lunch & 18 holes golf with Arnold Palmer & Dow Finsterwald at Bay Hill course.	Experience	5-Mar-06	63	68
21st Century of Flight Distinguished Award. San Diego Air & Space Museum.	Award	1-Jun-06	63	85
Burt developed the 'Arctic Cooling Hat' for golf. Circulates ice water in insulated headgear. Golf comfort in temperatures above 115 degF.	Project	1-Jun-06	63	68
Honorary Doctoral of Engineering. Univeresity of Illinois.	Education	15-Jun-06	63	85

Rode in Tesla Roadster when it was unveiled to the Press. Invite-Only Celebrities & Press taken on thrilling rides.	Experience	19-Jul-06	63	73
Breakthrough Leadership Award Popular Mechanics	Award	4-Oct-06	63	85
CBS 60-minutes' journalist Ed Bradley interviews Burt. This was Bradley's last interview before his death.	Experience	15-Oct-06	63	63 & 86
Pulse Detonation LongEZ Model 61. USAF Research Lab. Big noise, low thrust. Now shown in USAF Museum.	First Flight	1-Jun-07	64	35
Explosion during cold-flow SS2 rocket motor test. Three killed + 3 critical. First Scaled fatal injury. Huge stress for Burt & other Scaled employees.	Event	26-Jul-07	64	52
Burt health starts going downhill. By Feb 2008 Burt is weak & can barely walk. Reason not diagnosed .	Medical	1-Aug-07	64	67
Northrop buys 100% of Scaled. Burt remains as CEO of Scaled. After Burt 2011 retirement Scaled had 5 CEOs in 13 years.	Corp	15-Aug-07	64	57
Honorary Doctoral Degree Free University of Brussels	Education	28-Nov-07	64	85
Engineer of the Year. American Institute of Aeronautics & Astronautics	Award	15-Dec-07	64	85

Burt undergoes major open-chest surgery. To fix a rare disease- Constrictive Paracardiem	Medical	7-Feb-08	65	67
Jay Leno personal interface four occasions: Pasadena Art school, 2 Tonight shows & a Paul Allen China cruise.	Met	1-Jun-08	65	35 & 66
WhiteKnightTwo Model 348. For Virgin Galactic. Mothership for SpaceShipTwo. Same wingspan as the WW2 B-29.	First Flight	1-Dec-08	65	51
Met Larry Page & Sergey Brin at Google HQ. Negotiated a Google purchase of Scaled.	Meeting	1-Jan-09	66	57
Jack Horner, paleontologist-dinosaurs. He toured Burt & Tonya at his research center. Consulted on Jurassic Park film.	Experience	24-Aug-09	66	63
2009 Intrepid Pioneer Award. Stanley Hiller Jr at his museum.	Award	15-Oct-09	66	85
Firebird/Old-School Model 355. Detailed design by Cory Bird. A manned UAV for Northrop. Competitor to General Atomics.	First Flight	15-Feb-10	67	36
Rodie Model 61-R Proprietary	First Flight	15-Aug-10	67	36
Burt did prelim design for SpaceShipTwo, Model 339. For Virgin Galactic. Six-place sub-orbital spaceship.	First Flight	15-Oct-10	67	51
IR&D BiPod flying car, Model 367. Scaled did Phase 1 before Rutan retirement. Electric wheel launch.	First Flight	30-Mar-11	68	53

Burt retired from Scaled & moved to north Idaho. He retired early, due to heart health issues. Selected CdA in North Idaho. Did Model 375 after retirement.	Milestone	1-Apr-11	68	67 & 75
2011 Daniel Guggenheim Medal Guggenheim Board of Awards .	Award	1-Jun-11	68	85
Burt awarded the Hoover Freedom of Flight Trophy. Bob Hoover Living Legends.	Award	15-Jan-12	69	85
Burt receives National Air & Space Museum's Lifetime Achievement Trophy, Washington D.C.	Award	10-Mar-12	69	85
"Friends of Paul Allen" parties: 1-New Orleans, Paul's 60th b-day. 2-NYC Seahawks SuperBowl. 3-Singapore & 4-China/Japan.	Experience	25-Jan-13	70	66
Lifetime Achievement Award Palm Springs Air Museum	Award	8-Feb-13	70	85
Dynamic Tow Maneuver. Orbital Launch method. US Patent 13/914,744	Patent	11-Jun-13	70	85
Booster Rocket cradle Mounting, for Dyn Tow. US Patent 13/944,971	Patent	18-Jul-13	70	85
Bob Hoover Hall of Honor, at Paramount Studios. Burt was named one of nine "Hoover's Heroes".	Award	21-Feb-14	71	85
Brought BBQ food to Harrison Ford's home for lunch. Ford is in wheelchair, his plans changed by wife actress Calista Flockhart.	Experience	24-Mar-15	72	63

Tonya gets FAA Private licence to fly Seaplanes. 1.3 years before Private license to fly Landplanes !	Experience	24-May-15	72	71
Skigull Model 375 First Flight. Developed a long-range, ocean-capable amphibian. Total project- Jul 2013 to Apr 2020.	First Flight	23-Nov-15	72	78
Burt accepts the NAA Wright Brother's Memorial Trophy. Aero Club of Washington.	Award	15-Dec-15	72	85
Breakfast with Stevie Wonder. Aboard 1st Paul Allen Regent private cruise. Also, Stevie sang "Secret Life of Plants".	Experience	10-Apr-16	73	66
First of 3 Conjestive Heart Failures. Third was March 30, 2024. Then, Burt develops a method to avoid risk of CHF.	Medical	24-Sep-17	74	67
Last of 4 "Friends of Paul Allen" parties. M/S Mariner to Beijing, Tiamjin, Nagasaki, Hiroshima, Kyoto & Shanghai, China	Experience	15-Mar-19	76	66
Jeff Goldblum, Burt & Tonya sing our favorite songs. With Jeff & Emily Livingstone. Aboard the last Allen private cruise.	Experience	25-Mar-19	76	66
Burt awarded the AOPA Bob Hoover Trophy via Zoom, due to Covid 19 travel issues.	Award	3-Feb-21	78	85
Burt's Echocardiogram shows poor Heart efficiency. Ejection Fraction only 31%.	Medical	13-Apr-21	78	67

Burt receives the Ralph Coats Roe Medal. American Society of Mechanical Engineers.	Award	5/15/21	78	85
"Bucket List" cruise with Tonya. Explora 1. Scotland, Faroe Island, Iceland, Greenland & N/E Canada.	Experience	2-Sep-23	80	70

**Selected low-resolution photos for Timeline.
Higher resolution versions available
in BRAB Chapter Photo Galleries.**

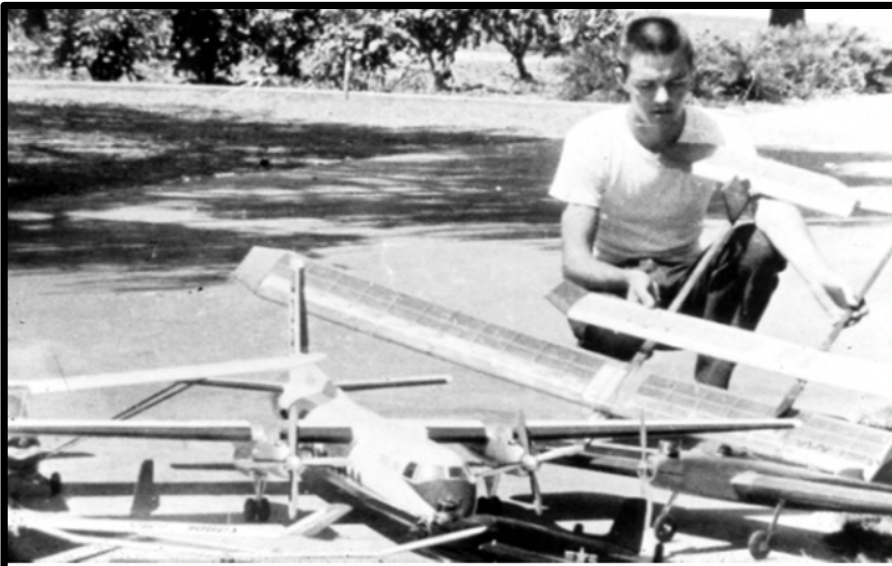




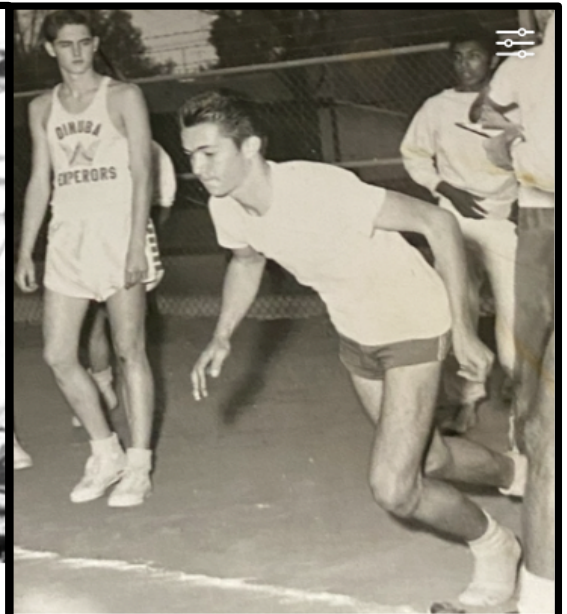
two Collier two Dolittle Burt







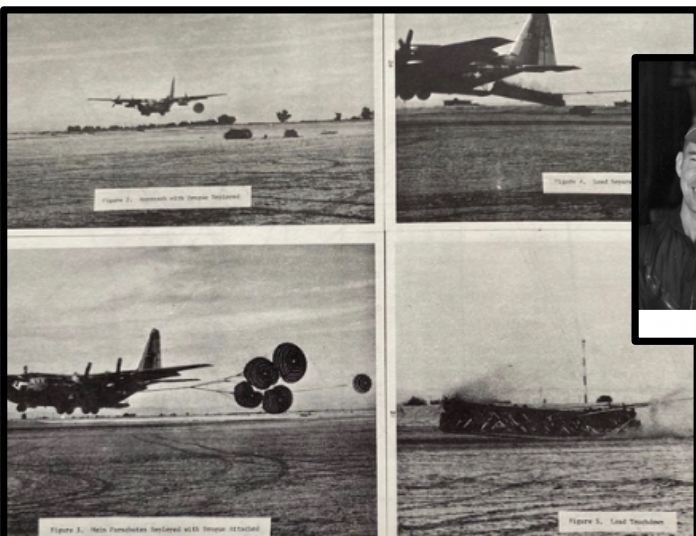
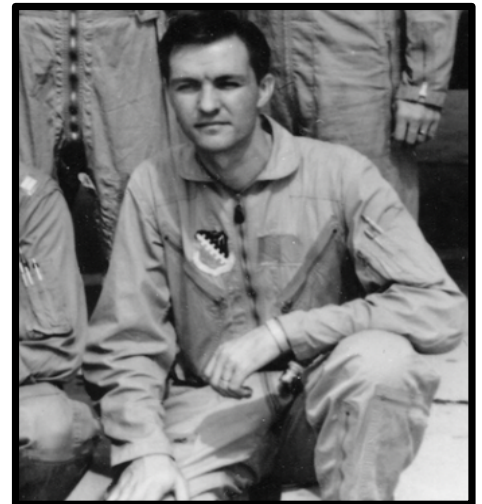
burt models 1960 AMA Nats



Burt DHS won Turkey Trot in socks



XC-142A transition



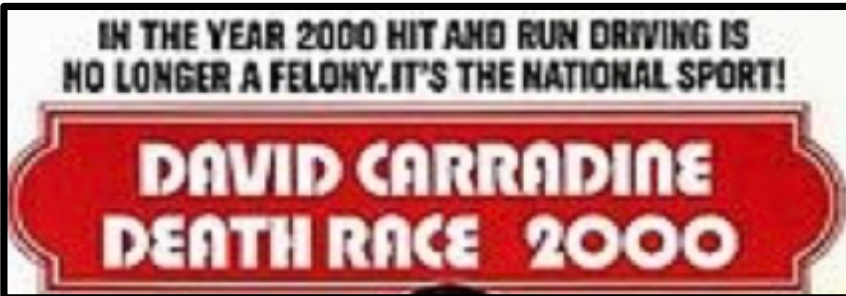
C-130 LAPES sequence



C-130 LAPES test program 1966



F-4 as a dirty bomber





burt with Whitcomb at OSH winglet



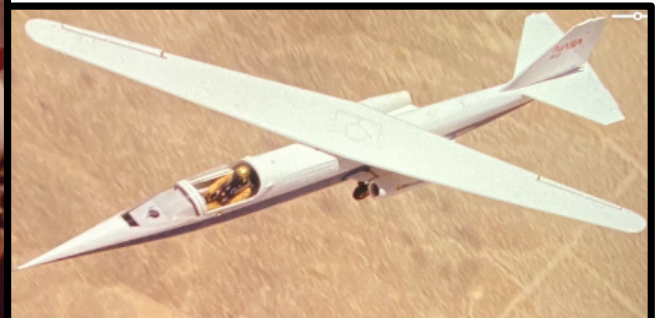
colin chapman



Eldon Cessna C.G. Taylor in various POC



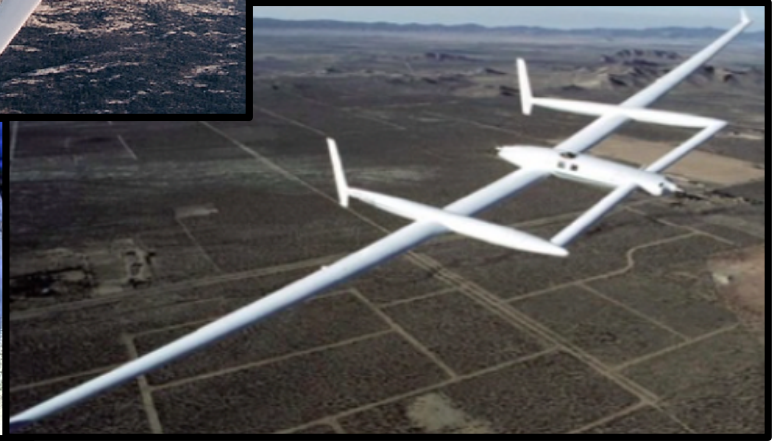
burt NGT test pilot



Skew Wing AD-1 for NASA Chap 25



ev-1 and boomerang



1982-1985	1985-1988	1988-2001	2001-2007	2007-Present
<p>Scaled Composites, Inc.</p> <p>Founded by Burt Rutan and Herb Iverson with Funding from Howard Keck and Joe Schirtzinger</p>	<p>Scaled purchased by Raytheon as a subsidiary of Beech Aircraft</p>	<p>Scaled purchased by Wyman-Gordon Company</p> <p>Wyman acquired in 1999 by Precision Castparts</p>	<p>Scaled Composites LLC formed</p> <p>9 Individual investors; NG with minority interest</p>	<p>Scaled Composites LLC Acquired by Northrop Grumman Corporation</p>



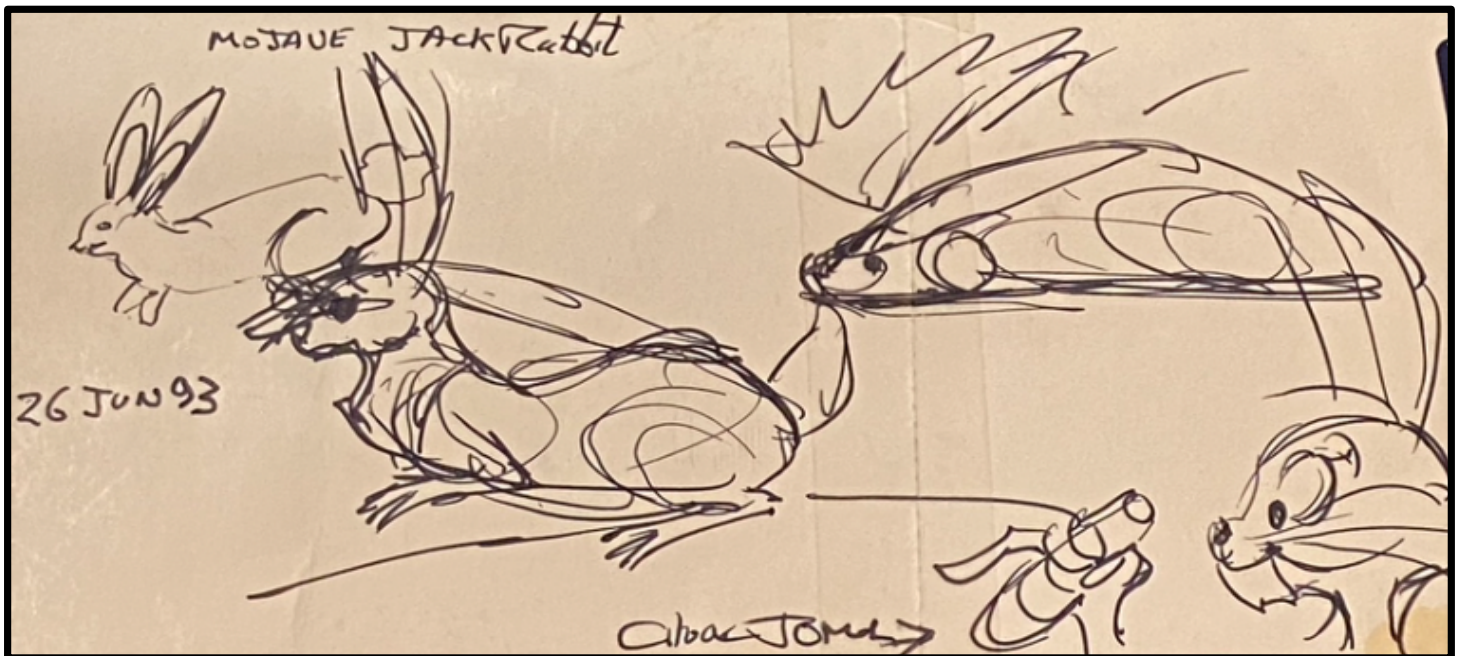
RAF & Scaled mojave airport





Negotiate with FAA





History - Burt Rutan's Education, Jobs and Romantic Relationships

