

Brooks Mershon

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EDUCATION

DUKE UNIVERSITY

BS IN COMPUTER SCIENCE

May 2016 | Durham, NC
Cum. GPA: 3.74 / 4.0
Duke Cycling Team Member

NEW YORK UNIVERSITY

WRITERS IN NEW YORK 2014

PENNSBURY HIGH SCHOOL

VALEDICTORIAN

June 2012 | Fairless Hills, PA

SKILLS

AVIATION

4034486CFI

Commercial Pilot (ASEL, GLIDER)
Flight Instructor (ASEL, GLIDER)
Over 70 makes and models flown
EAA 1271516
IAC 440213

Hours:

TOTAL: 1890 • PIC: 1793
12-MONTHS: 280 • 90-DAYS: 72
ASEL (PIC): 1350 • GLIDER (PIC): 537
TAILWHEEL: 900+
CROSS COUNTRY (PIC): 380
INSTRUCTOR: 330
NIGHT (PIC): 66
SIMULATED INSTRUMENT: 53
ACTUAL INSTRUMENT: 1
MULTI: 5

Aviation Activities:

Own Pitts S-1S, Bellanca Viking
IAC Intermediate Competitor
President/founder, EAA Chapter 1662
EAA Flight Advisor
Secretary, Marion Airport Commission

MEDIA

Figma • SketchUp • DaVinci
DSLR Photo/Video

PROGRAMMING

TypeScript • JavaScript • D3
Git • Make
HTML • CSS • \LaTeX
Familiar:
C++ • Python • Java • R • PostgreSQL
Emscripten

EXPERIENCE

UNAVCO | SOFTWARE ENGINEER III

April 2021 - Present | Boulder, CO

- Rapid prototyping of frontend data discovery and visualization tools on Observable featured in Yahoo News and Observable customer success stories.
- Pedagogical tools related to seismology and GNSS aspects of geoscience.
- Shake Alert earthquake early warning system design; research and development team.

TIMBER TIGER AIRCRAFT, INC. | TEST PILOT (CONTRACTOR)

November 2020 - Present | Boulder, CO

- Performed first flight on a new to market kitplane prototype, a Ryan ST replica 6 years in the making. All-CAD-from-the-ground-up, high quality kit. On the cover of Kitplanes September 2021 issue. Demo pilot.

BOULDER PILOT, LLC | OWNER AND PILOT

March 2020 - Present | Boulder, CO

- Started an aircraft ferry services and transition training LLC with an emphasis on experimental aircraft, biplanes, and other demanding tailwheel aircraft with a FedEx Express and Air National Guard Pilot.
- Developed the domain management, website, branding, merchandizing, and billing practices for the Boulder Pilot brand.

MILE HIGH GLIDING | MANAGER AND CHIEF PILOT

January 2019 - April 2021 | Boulder, CO

- Experienced commercial glider and tow pilot (1,200+ glider flights flown). Responsible for staff pilot training.
- Organized and programmed everything related to software and marketing to run the business more efficiently under new ownership.

TRIMBLE SKETCHUP | SOFTWARE DEVELOPER

July 2016 - January 2019 | Boulder, CO

- Significant engineering and design involvement bringing SketchUp Web to the EDU market, including integrating online file saving with Google Drive.
- Focused on improving the look, feel, and usability of the SketchUp Web user interface, specifically the search for Commands and Outliner.
- 90 percent front-end work, 10 percent core geometry engine work.
- Won "Best Presentation" and "Best Overall Hack" at internal 2018 hackathon.

THE WASHINGTON POST | GRAPHICS INTERN

June 2015 - August 2015 | Washington, D.C.

- Designed graphics for print and online publication using Adobe Illustrator.
- Developed interactive graphics (JavaScript, D3) that were published online on subjects including baseball statistics, historical U.S. nuclear testing, and environmental conservation.

DUKE UNIVERSITY PRESS | BOOKS EDITORIAL INTERN

Jan 2015 - May 2015 | Durham, NC

VERSAL | SOFTWARE ENGINEERING INTERN

May 2013 - Aug 2013 | San Francisco, CA

- Developed simulations related to optics, epidemiology, image processing, and geometry as the company launched.