

<https://flohule.github.io/>

Florian Julé

US Permanent resident

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Work experience

Joby Aviation

Santa Cruz, CA

Nov 2023 - Feb 2025

Staff Mechanical Engineer - Special Projects, Flight Research (several novel aircraft)

- Responsible for an electro-mechanical retractable landing gear for a novel aircraft prototype.
- Responsible for mechanical systems on a novel aircraft prototype.

Tail and Effectors IPT (Integrated Product Team) Lead Engineer (S4-2.1 production aircraft)

Oct 2018 - Nov 2023

- Led cross-functional teams in the development of tail, tilt nacelles, control surfaces, and propellers, advancing airframe designs to FAA certification and production. 5 direct reports.
- Delivered the first production-prototype aircraft and conforming drawing package.
- Holder of US patent for the inboard nacelle tilt mechanism: [Rotor assembly deployment mechanism](#).

Tilt Nacelles Lead Engineer (S4-2.0, pre-production aircraft)

Oct 2017 - Oct 2018

- Responsible for designing, building and testing the tilt nacelles for the Joby S4 pre-production aircraft.
- Supported as a flight test engineer throughout the flight test program.

Mechanical Engineer (S4-1.0, first full scale eVTOL aircraft)

Feb 2017 - Oct 2017

- Supported composites manufacturing and structural testing for the first Joby S4 full scale prototype.

University of Michigan

Ann Arbor, MI

Jan 2016 - Dec 2016

Research Assistant in Professor Henry A. Sodano's [Aerospace Materials Laboratory](#)

- Developed and tested a 3D printer for piezoelectric composites printing. Publication in ACS: [Printed Nanocomposite Energy Harvesters with Controlled Alignment of Barium Titanate Nanowires](#), with Mohammad H. Malakooti and Henry A. Sodano..
- Investigated and tested self-healing polymers for composites application. Publication in Polymer: [High service temperature, self-mendable thermosets networked by isocyanurate rings](#), with Lisha Zhang and Henry A. Sodano.

Education

Northwestern University

Evanston, IL

Sep 2025 - Sep 2026

Master of Science in Robotics

Ann Arbor, MI

Sep 2015 - Dec 2016

University of Michigan

Master of Science in Aerospace Engineering

Arts & Métiers ParisTech (ENSA)

Metz/Paris, France

Bachelor and Master of Science in Mechanical & Industrial Engineering

Sep 2013 - Jun 2015

Skills

Languages

Robotics: Filters (Kalman filter, UKF), SLAM (Nav2), Computer Vision (YOLO), other AI/Machine Learning (RRT, A*, Locally weighted regression, PCA).

French
English

Software development: Python, Git, ROS 2, Gazebo, C, C++, Matlab.

Mechanical: CAD (3D Experience), FEA (Abaqus, Simulia).

Manufacturing: Composites (hand layup, AFP), Metallic (CNC, sheet metal, 3D printing), Prototyping (plastic 3D printing). GD&T (ASME Y14.5).

Life passions

Mountain biking, Skiing, Mountaineering.

[YouTube channel](#)