

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

# Florian Julé

US Permanent resident

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## Work experience

### Joby Aviation

**Santa Cruz, CA**

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

Nov 2023 - Feb 2025

- 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**

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

Jan 2016 - Dec 2016

- 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**

#### **Master of Science in Robotics**

Sep 2025 - Sep 2026

### University of Michigan

**Ann Arbor, MI**

#### **Master of Science in Aerospace Engineering**

Sep 2015 - Dec 2016

### Arts & Métiers ParisTech (ENSAM)

**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).

**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).

French  
English

## Life passions

Mountain biking, Skiing, Mountaineering.

[YouTube channel](#)