

Jeremy Kanovsky

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WORK EXPERIENCE

MARKFORGED, Waltham, MA

Senior Software Engineer, June 2023 – Present

- Developed and launched new features from start to finish expanding hardware capabilities.
- Worked cross functionally with other engineering and product teams to plan new initiatives.
- Mentored junior software engineers in system design and software testing best practices.

Software Engineer II, October 2022 – June 2023

- Implemented critical functionality and calibration procedures for multiple new hardware products.
- Supported multiple engineering teams manufacturing and testing new devices.

Software Engineer, June 2021 – September 2022

- Designed core infrastructure for a new printer software architecture.
- Built and tested multiple pieces of core functionality related to printing and user workflows.

Software Engineer Intern, May – August 2020

- Implemented and tested automatic multi-point print bed compensation.
- Provided software support for research and development efforts on new hardware platforms.

Software Engineer Intern, May – August 2019

- Wrote and maintained embedded software for 3D printers.
- Expanded capabilities of 3D printers using existing hardware.

MICROSOFT, Cambridge, MA

Makerspace Lead, January – May 2020

- Managed day-to-day operations of the Boston Garage makerspace at Microsoft.
- Expanded makerspace capabilities, maintained and operated rapid prototyping equipment.

NOLOP MAKERSPACE, TUFTS UNIVERSITY, Medford, MA

Fabrication Supervisor, January 2019 – May 2021

- Train students in fabrication techniques and project design.
- Setup, operate, and repair rapid prototyping machines such as 3D printers and Laser Cutters.

SCHOOL OF ENGINEERING, TUFTS UNIVERSITY, Medford, MA

Teaching Assistant – Robotics and Mechatronics (2020, 2021), *Electromechanical Systems and Robotics* (2020), *Simple Robotics* (2019, 2020), *Data Structures* (2019), *Introduction to Computer Science* (2019), *Introduction to Computing in Engineering* (2019, 2020)

EDUCATION

TUFTS UNIVERSITY, Medford, MA

Bachelor of Science in Computer Science, Graduated May 2021

Bachelor of Science in Mechanical Engineering, Graduated May 2021

GPA: 3.66/4.00, Magna Cum Laude, Dean's List

RESEARCH EXPERIENCE

TUFTS UNIVERSITY, DEPARTMENT OF MECHANICAL ENGINEERING, Medford, MA

Undergraduate Research Project, May 2018 – December 2018

Autonomous Systems and Robotics (ASAR) Lab, PI: Prof. Jason Rife

- Developed software infrastructure to control multiple autonomous quadcopter UAVs.
- Implemented UAV three-dimensional positioning system and feedback control.

ACTIVITIES

Tufts Robotics Club, *President*, September 2017 – May 2021

Tufts SEDS, *Co-Founder, Vice President*, November 2017 – May 2021

Tufts Engineering Student Council, *Vice President*, January 2018 – May 2021

Tufts Computer Science Student Council, January 2018 – February 2020

PROJECTS

Multi-terrain Autonomous Hexapod Robot, Fall 2020

- Designed, fabricated, and programmed an autonomous robot for navigating unique terrain.

Daedalus High-power Brushless Motor Controller, Spring 2021

- Created a custom PCB to enable high-precision closed loop position control of a brushless DC motor.

Meteorite Visualizer, Spring 2020

- Designed and implemented a web-based data visualization platform for NASA meteorite data.

Surge PL, Spring 2021

- Created an interpreted programming language with Ruby-esque syntax implemented twice in Python and Standard ML.

SKILLS

Software: TypeScript/Javascript, Node.js, Python, C/C++, HTML, CSS, Git/GitHub, Linux/Unix, React.js, Heroku, D3.js, AWS, CI/CD

Fabrication: 3D Printing, Laser Cutter, Horizontal/Vertical Bandsaw, Chop Saw, Table Saw, Drill Press, CNC Router, Hand Tools, Soldering