Jeremy C. Kanovsky

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EDUCATION

TUFTS UNIVERSITY, Medford, MA
Bachelor of Science in Mechanical Engineering, Expected May 2021
Bachelor of Science in Computer Science, Expected May 2021
GPA: 3.59/4.00, Dean's List
NEW HOPE SOLEBURY HIGH SCHOOL, New Hope, PA, Graduated 2017
GPA: 96.5/100, National Honor Society

RELEVANT COURSES

MECHANICAL ENGINEERING: Mechanical Statics and Dynamics, Thermodynamics, Intro Electrical Systems, Mechanical Design and Fabrication, Intro to Robotics and Mechatronics
COMPUTER SCIENCE: Machine Structure and Assembly, Artificial Intelligence, Data Structures, Algorithms, Web Programming, Graphical User Interfaces, Computational Theory

WORK EXPERIENCE

NOLOP MAKERSPACE, TUFTS UNIVERSITY
Fabrication Assistant, Medford, MA, January 2019 – Present
- Train students in fabrication techniques and project design
- Setup, operate, and repair rapid prototyping machines such as 3D printers and Laser Cutters

TUFTS UNIVERSITY, DEPARTMENT OF COMPUTER SCIENCE
Teaching Assistant – Data Structures, Medford, MA, January 2019 – Present
- Lead a lab section and hold office hours teaching Data Structures
- Grade students' homework assignments and exams

TUFTS UNIVERSITY, DEPARTMENT OF COMPUTER SCIENCE
Teaching Assistant – Intro to Computing in Engineering, Medford, MA, January 2019 – Present
- Teach 70 students Python and Raspberry Pi hardware
- Hold office hours and graded students' homework assignments

SPECIALTY PAPERS AND FILMS, INC.
Lab Assistant, Lab Technician, New Hope, PA, August 2016 – June 2017
- Developed printed circuitry, performed product testing and experimental method development
- Operated a differential scanning calorimeter and thermal transfer printers

RESEARCH EXPERIENCE

TUFTS UNIVERSITY, DEPARTMENT OF MECHANICAL ENGINEERING
Undergraduate Research Project, May 2018 – December 2018
- Developed code infrastructure to control multiple quadcopter UAVs
- Implemented UAV three-dimensional positioning system and feedback control

SKILLS

Computer: C/C++, Java, HTML, CSS, JavaScript, Git, Python
Design: Adobe Illustrator, OnShape, LaTeX
Hardware: Arduino, Raspberry Pi, Computer Assembly
Fabrication: 3D Printing, Laser Cutting, Horizontal/Vertical Bandsaw, Chop Saw, Table Saw, Drill Press, CNC Router, Hand Tools, Soldering

ACTIVITIES

Tufts MAKE Club, *President*, September 2017 – Present
Tufts Engineering Student Council, *Treasurer*, January 2018 – Present
Tufts Computer Science Student Council, January 2018 – Present
Tufts Robotics Team, *Treasurer*, September 2017 – Present
Tufts SEDS, *Co-Founder*, *Communications Officer*, November 2017 – Present
NHS Vex Robotics Team, *Founder*, September 2016 – June 2017

PROJECTS

Autonomous Quadcopter UAV, January 2018 – May 2018
- Lead a project team designing, building, and programming a semi-autonomous quadcopter UAV for open-ended applications

Robotic Arm Swarm, February 2019 (Harvard Makeathon)
- Designed, fabricated, and programmed a swarm of web enabled robotic arms to be used to assist in teaching robotics

Trinity Firefighting Robot, December 2017 – May 2018
- Designed, fabricated, and programmed a robot entered in the Trinity College International Robot Contest

Expo® Marker Digitizer, October 2017 (Tufts Hackathon)
- Designed and assembled a removable pen digitizer for a whiteboard marker to generate PDF files of handwriting