

# Evan Dietrich

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## EDUCATION

### Tufts University

Medford, MA

B.S. COMPUTER SCIENCE, B.S. COGNITIVE AND BRAIN SCIENCES

May 2021

- Major GPA: 3.78, Recipient of the Edgar N. and Faith A. Johnson Scholarship, Dean's List

### RELEVANT COURSEWORK

- Algorithms, Data Structures, Machine Learning, Machine Structure and Assembly Language, Discrete Math, Statistics, Cognitive and Brain Sciences, Logic, Linguistics

## EXPERIENCE

### MIT Lincoln Laboratory

Lexington, MA

SOFTWARE ENGINEERING INTERN

May 2019 - Present

- Designed and implemented an automated software system in C++ to set hardware configurations and run calibration tests on lasercom terminals, replacing manual procedures and reducing costs.
- Developed a MATLAB signal processing algorithm to make real-time corrections on transmissions.

### Tufts University Computer Science Department

Medford, MA

SENIOR TEACHING ASSISTANT

Feb 2018 - Present

- Led weekly 2-hr labs on fundamental concepts and data structure implementations.
- Held office hours for 275 students in 'Intro to CS' and 'Discrete Math' to guide and support projects.

### Tufts University Spatial Cognition Laboratory

Medford, MA

RESEARCH ASSISTANT

May 2018 - Feb 2019

- Executed statistical analysis in R and produced scripts to save time evaluating large-scale datasets.
- Wrote 30 pages of manuscript on boosting student's STEM aptitude via spatial visualization training.

### Tufts University Human-Robot Interaction Laboratory

Medford, MA

RESEARCH ASSISTANT

Jan 2018 - Apr 2018

- Invented new Python methods for a neural network modeling language-switching costs for bilinguals.
- Built a GUI to run the model, expediting evaluation time and simplifying user-computer interaction.

## PERSONAL PROJECTS

### Tufts Brain-Computer Interface Team

Cambridge, MA

FOUNDER AND PROJECT MANAGER

Feb 2019 - Present

- Directed a dozen students in designing and fabricating EEG headsets to measure human brain activity.
- Created software to detect distinct brain states and prototype industry and medical applications.

### Faulhaber Fabrication Laboratory Prosthetics Group

Sarasota, FL

CO-FOUNDER AND FABRICATOR

Aug 2015 - Aug 2017

- Produced fully-functional 3D printed prosthetics custom-built and donated to individuals in need of an upper-limb assistive device.

## SKILLS

<b>Languages</b>	C++, C#, C, CSS, HTML, JavaScript, MATLAB, Python, R
<b>Technologies</b>	Bash, Git, Photoshop, Qt, SPSS Statistics, TensorFlow, UML, Valgrind
<b>Fabrication</b>	3D Printing, AutoCAD, CNC Router, Laser Cutting, Soldering