

Logan Garbarini

engineer, researcher, and developer

contact

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programming

VHDL
C++, Java, Android
Python
Ruby (Ruby on Rails)
JavaScript
CSS3 & HTML5

technical skills

Cleanroom Ops
(deposition, lithography,
chemical processing)
COMSOL Multiphysics
3D CAD - Autodesk
Rapid Prototyping
Web App Deployment
Computer Networks
Altium CircuitMaker
FEA/FDTD Simulation

education

- 2014 - 2018 **BSEE Electrical Eng.** Tufts University — Medford, MA
Dean's list 5/6 semesters
MIT — How To Make Almost Anything
- 2010 - 2014 **International Baccalaureate Diploma** Fairview High School — Boulder, CO
Graduated Magna Cum Laude

experience

- Summer '17 **MIT Lincoln Laboratory — Lexington, MA** Engineering Intern
Prototyped RF/Microwave circuitry for airborne defense systems
Simulated and Characterized a variety of RF/Microwave devices in anechoic chamber
- 2014 - Now **Tufts University SilkLab — Medford, MA** Undergraduate Researcher
Design bioelectronic sweat sensors and RF Temporary Tattoos
Engineer wireless epidermal sensor interfaces
Fabricate electronic and chemical sensors using electron-beam lithography
Engineer automated processing equipment using microcontrollers/FPGAs
Rapid Prototyping of Research Systems
- 2013 - 2014 **JILA — Boulder, CO** Student Researcher/Programmer
Researched force spectroscopy on Atomic Force Microscopes
Focused on FEA Simulation as well as instrument configuration and optimization

projects

- 2014 - Now **Hackathons** Hacker & Organizer
1st Place and Special Prize winner at MakeMIT 2017
Organizer of Tufts Polyhack 2015 & 2016
Hacked at four Hackathons (HackMIT 2014 & 2015, Polyhack, ID Hack)
- 2016 - Now **Blindspot/Door Detecting Bike Sensor** Personal Project
Sensing of potential bike collisions using radar
Work with AVRs and rapid prototyping of PCBs
- 2015 - 2016 **Robotic Wirelessly Controlled Roomba** Project Lead
Building an robotic pet for the Tufts EECS department
Work with serial data and logic analyzers
- 2006 - Now **Amateur Radio Operator** Operator and Designer
Achieved the highest Amateur Extra class license in 2010
Designed a networked Software Defined Radio

extracurriculars

- 2014 - Now **Tufts University IEEE Chapter** Project Lead & Webmaster
- 2009 - 2014 **Competitive Swimming** Sectionals Swimmer
Qualified for USA Swimming Sectionals