

DHARA PATEL

ELECTRICAL AND COMPUTER ENGINEER

ABOUT ME

I am an ECE with a concentration in entrepreneurship. Through my coursework, internships, and personal projects, I have curated strong technical and teaming skills that have allowed me to create, design, and build anything from rockets to laser instruments and take on leadership roles.

EDUCATION

OLIN COLLEGE OF ENGINEERING
BOSTON, MA

Electrical and Computer Engineering
GPA 3.53
May 2022

SKILLS

Embedded Systems

- C/C++
- I2C / SPI
- ARM / STM
- Azure

Hardware

- KiCAD / Altium
- EE Benchwork
- PCB Design
- LTSpice

Software

- Python
- Java
- Linux
- Git

CONTACT ME

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EXPERIENCE

WATTS WATER TECHNOLOGY

Electrical Engineer | May 2020 - Present

OVERALL GOAL: reinvent plumbing by enabling water systems to send and receive data via the Internet

MY IMPACT: building deployable boards that use MQTT to send sensor data and receive user input through Azure

XIMPLE SOLUTIONS

Software Engineer | June 2020 - Present

OVERALL GOAL: integrate Apache Solr - an open source search platform - into the existing ERP platform

MY IMPACT: building a custom search API with Angular UI integration and data handling

NASA THINSAT MISSION

Electrical Engineer | June 2019 - Sept 2019

OVERALL GOAL: Deploy 3 ThinSats defined by the UAF for NASA's NG13 mission slated for a Dec '19 launch

MY IMPACT: designed and programmed complete electrical system using C++

NASA GODDARD SPACE CENTER

Software Engineer | Jan 2018 - Feb 2018

OVERALL GOAL: improve Lessons Learned database by reinventing the site for ease of use

MY IMPACT: used HTML to create a better user interface and Python to organize the database

PROJECTS

OLIN ROCKETRY AVIONICS

Hardware and Power lead | Aug 2019 - Present

OVERALL GOAL: build a sounding, L3 rocket to compete at the 2020 IREC competition at the 10,000 ft

MY IMPACT: designing the battery management system and managing all avionics hardware

RIGHTS AND PRIVACY

Software and branding | Aug 2020 - Present

OVERALL GOAL: Confronting deep inequalities produced by the U.S. justice system through software and data analysis.

MY IMPACT: Designing a data tool in Python that confronts issues faced by partner organizations and building a brand for our team

BEAM BARS

Electrical engineer | Oct 2019 - Jan 2020

OVERALL GOAL: electro-mechanical instrument that uses lasers to generate digital sound

MY IMPACT: built the electrical system in C which generates sound using ADC and control/sense lasers

GOD'S EYE MODELING

Co-creator | Aug 2019 - Jan 2020

OVERALL GOAL: AI model that applies image processing to missing persons and criminal investigation

MY IMPACT: built a deep learning model that can detect an image's location using Python's Tensor Flow