

# Pranavi Boyalakuntla

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Github: naviatolin

## EDUCATION

### Olin College of Engineering, Massachusetts - *ECE with Entrepreneurship*

SEPTEMBER 2018 - MAY 2022

- GPA: 3.7
- Courses: Computer Architecture, Software Design, Microelectronic Circuits, User Oriented Collaborative Design, Signals and Systems, Topics in Bioengineering

## EXPERIENCE

### Promaxo, California - *Engineering Intern*

JUNE 2019 - AUGUST 2019

- Automated high precision collection of magnetic field measurement data for image reconstruction in 3D space surrounding the Promaxo MRI
- Wrote an API to communicate with Festo motor controllers using Modbus communication protocol
- Built and debugged a programmable logic controller
- Contacted manufacturers to source parts for electrical research and development

### Green Line Ventures, Massachusetts - *Founding Partner*

DECEMBER 2020 - PRESENT

- Seed fund designed to promote student led startups in the Babson-Olin-Wellesley community
- Working with VC firm 500 Startups to set the fund up and design how the fund will operate
- Meeting founders, deciding on investments, and creating marketing materials
- Launching soon!

### Catalyst at Olin College of Engineering, Massachusetts - *Board Executive*

DEC 2018 - PRESENT

- Cofounder of the Catalyst Entrepreneurial Fellowship at Olin College of Engineering, an initiative to provide seed funding and mentorship resources to Olin startups
- Connecting with Boston and San Francisco area entrepreneurs to provide a network to help Oliners experience entrepreneurship

### Olin College of Engineering, Massachusetts - *Math Accessibility Researcher*

JUNE 2020 - AUGUST 2020

- Built online math explanations in JavaScript using the Explanaria library
- Created online math interactives for middle school aged children in JavaScript using the Phaser library
- Animated DEI video educating parents on potential hurdles in STEM education for their children

### Olin College of Engineering, Massachusetts - *TA: Quantitative Engineering Analysis*

JANUARY 2020 - MAY 2020

- Bridge the gap between faculty and students by hosting office hours, and scheduling individual helping times
- Partner with faculty members to adjust course based on student feedback

### Dassault Systèmes: SolidWorks, Massachusetts - *FABLAB Engineer Intern*

JUNE 2017 - AUGUST 2017

- Built a self sustaining vertical aquaponics system with another intern
- Wrote Arduino tutorials for the electronics station

## SKILLS

**Hardware:** SolidWorks, FPGA, PLECS, Eagle, Electrical Prototyping, 3D Printing, Arduino, LTSpice

**Software:** Python, Verilog, MATLAB, Mathematica, Static Website Development, JavaScript

**Other:** Conducting User Interviews, Agile Scrum, Adobe - Illustrator, After Effects, Animate, Premiere Pro

**Hobbies:** Piano, Art, Hiking, Entrepreneurship, Meditation, Coffee, Boba

## SAMPLE PROJECTS

**Autem** - Automatic scheduling application With GCal Integration: (<https://naviatolin.gitlab.io/autem-fg/#>)

**Chrome Dinosaur Game in Assembly and Single Cycle CPU in Verilog** - (<https://github.com/naviatolin/Jumping-Dino-MIPS>)

**Analog 4-Bit Multiplier Using CMOS Transistors** -

([https://github.com/naviatolin/Circuits-Spring2020/blob/master/Final.%20Analog%204-Bit%20Multiplier%20with%20CMOS/An\\_Analog\\_Four-Bit\\_Multiplier\\_Using\\_CMOS\\_Transistors.pdf](https://github.com/naviatolin/Circuits-Spring2020/blob/master/Final.%20Analog%204-Bit%20Multiplier%20with%20CMOS/An_Analog_Four-Bit_Multiplier_Using_CMOS_Transistors.pdf))