Andrew Mascillaro

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EDUCATION

OLIN COLLEGE OF ENGINEERING
BS Electrical and Computer Engineering
Expected Jun 2023 | Needham, MA

HIGH TECHNOLOGY HIGH SCHOOL
Pre-Engineering High School
#1 STEM High School in the US
Grad. Jun 2019 | Lincroft, NJ
Cum. GPA: 96.17 (out of 100)

LINKS

Github:// **intermezzio**
LinkedIn:// **andrew-mascillaro**
Devpost:// **intermezzio**

COURSEWORK

UNDERGRADUATE
Quantitative Engineering Analysis
Sustainability
Fundamentals of Robotics
Sensors, Instrumentation, and Measurement

HIGH SCHOOL
Computer Software for Engineers
Engineering Design and Development

SKILLS

SOFTWARE
Very Experienced:
Java ☑ • Python ☑ • JavaScript
HTML/CSS • LaTeX • Git ☑
Autodesk Inventor
Experienced:
C++ • SQL • Hugo • ROS
PHP ☑ • Bash • SQL • MongoDB
MATLAB • JQuery

☑ = LinkedIn Certified

PLATFORMS
Very Experienced:
Windows • Manjaro Linux
Experienced:
Ubuntu Linux • Raspbian Linux

EXPERIENCE

MIT BEAVER WORKS | Teaching Assistant
July 2019 – Aug 2019 | Cambridge, MA
- Analyzed aerial images in Python using OpenCV
- Taught students about **Python**, **Computer vision**, **Bash**, **SSH**, and **Git**
- Built two websites, one for the <u>overall course</u> and one for the <u>aerial image processing project</u>

ICIMS | Software Engineering Intern
Sep 2018 – Jan 2019 | Holmdel, NJ
- Worked on **localization** practices for iCims by changing key names in the language resource bundles
- Programmed a script to parse the source code using **Python** and **Java** to search for keys, providing a detailed change list for the company to follow

PROJECTS

MACHINE LEARNING LIP READER | Frontend Lead
PennApps (UPenn Hackathon)
- Worked on a team of four to make a lip reader using computer vision and machine learning
- Used **Python**, **Flask**, **Tensorflow**, **MaterializeCSS**, and **Google Cloud API**
- Hosted the site using AWS at `https://speakinto.space`
- Top 10 finalist hackathon project and #1 Google Cloud Based Project

MENTORS IN TECH PLATFORM | Project Lead
HackPrinceton (Princeton University Hackathon)
- Built a platform that connects mentors and mentees in the technology field
- Allows people to sign into the platform, give their information, and find mentors that are similar to themselves
- Created using **Python**, **Flask**, **MongoDB Atlas**, **JQuery** and **Bootstrap**

AUTONOMOUS DRONE | Computer Vision Developer
MIT
- Working on a team to program a tractor that autonomously plows land
- Programming the front camera to detect humans and obstacles using **Python**, **OpenCV**, **C++**, and **ROS**

GRAVL AUTONOMOUS TRACTOR | Computer Vision Developer
Olin College
- Working on a team to program a tractor that autonomously plows land
- Programming the front camera to detect humans and obstacles using **Python**, **OpenCV**, **C++**, and **ROS**

SAE FORMULA ONE RACING | Electrical Engineer
Olin College
- Building an electric car from scratch
- Creating a **PCB design** and programming it in **C** to measure suspension travel - the changing height of the body of the car with respect to the ground