Max Farrell

(347) 924-7298 | NYC | maxffarrell@gmail.com

SKILLS

- AutoCAD
- Basic electrical work
- Basic multimeter diagnosis
- C++
- Linux & CLI
- MATLAB
- Office suite
- Power tools
- Project management
- Python
- R
- Residential network troubleshooting
- Serial comms
- Shapr3D
- SketchUp
- Soldering

EXPERIENCE

Breezy Point Cooperative • IT Intern Summer 2024 – Present

- Converted physical paperwork to database entries
- Supervised data entry team of three
- Validated data using QA environment

Rockfish Custom Builders • Construction Spring 2024

Breezy Point Cooperative • Seasonal Worker Summers 2019 – 2023

- Residential and beach cleanup for local community
- Drove garbage trucks, operated tractor with Surf Rake
- Variety of maintenance/laborer tasks

Computer Repair • Self-Employed June 2017 – Present

- Repair, replace, & configure home electronics and personal devices including AV, smart home devices, and networking equipment
- Negotiate contracts for on behalf of customers with ISPs/carriers

EDUCATION

Purdue University Aug 2021 – Dec 2024

B.S. Integrated Business and Engineering

Stuyvesant High School Sept 2017 – Jun 2021

PROJECTS

Purdue IoT & Edge Processing • HW/SW Lead Aug 2023 – Dec 2024

- Monitored for hazards in Purdue's BIDC using mesh network of sensor nodes
- Directed creation of data pipeline using local & cloud SQL databases
- Utilized Arduino IDE (C++) and Shapr3D modeling, Excel for cost analysis
- Lead a team of 6 electrical engineering and computer science students
- Mapped out resources and met goals and deliverables
- Researched compatibility, effectiveness, and cost of materials

Skills: Electronics Packaging · 3D Printing · Project Management · Arduino

Purdue: Data Science for Smart Cities • Student Researcher Jan - May 2022

- Compiled, evaluated and reported complex data for artificial intelligence pothole detection project for the *City of West Lafayette*
- Acquired TensorFlow basics to create a model that classifies images containing structural damage
- Managed multiple timelines, collaborated with team and presented

Skills: Machine Learning · Python · Keras

Purdue: Race to Zero • Student Researcher Aug 2021 - Dec 2021

- Modeled Orkney Island sustainable microgrid using HOMER Pro
- Focus on integration of hydrogen fuel cell

Skills: Microgrids · Modeling