Logan Edwards

Email: ledwar04@nyit.edu | Phone: (631) 605-1914 | linkein.com/in/logan-edwards-76bb91282

Education

New York Institute of Technology Sep 2024 - Present
Masters in Electrical and Computer Engineering (GPA: 3.7) Old Westbury, New York

Skills

Technical Skills: CAD | Circuit & PCB Design| Programming | Microcontroller Communication
Programming Languages: Python | Java | C# | JavaScript | TypeScript
Technologies: Linux | Raspberry Pi | Arduino | Fusion 360 | Eagle | EasyEDA

Experience

Entrepreneurship and Technology Innovation Center Nov 2024 - Present
ETIC Electrical and Computer Engineer (Promoted from ETIC Intern) Old Westbury, New York

- Contracted by NASA's Technology Transfer Office to develop and deliver 4 high-end patented prototypes
- Project managed 3 multi-disciplinary engineers to create a patent pending prototype. Responsible for setting timelines, delegating tasks, monitoring project progress, reporting progress updates to the client, and engineered required circuits for said prototype
- Designed electrical circuits and PCB designs for 4 NASA patents

Lavli Inc. Feb 2025 - Present
Electrical Engineer Intern Port Washington, New York

- Designed circuit and PCB designs for multiple integrated systems which includes power distribution, sensors, micro controllers, and a reverse engineered Ozone generator to create a more affordable option for the end product.

Projects | Raspberry Pi, Python, Integrated Electronics

Digital to Analog Transformation | Patent: US10085662, NASA MSC-TOPS-67

- Converts 12-lead ECG data from one manufacturer's ECG machine to another.
- Developed the circuit board and chip protocols that communicate with a Raspberry Pi, Digital to Analog Converter, and buzzer to display the analog to digital conversion in a small form factor.

Space Suit RoboGlove (SSRG) | Patent: US11690775, NASA MSC-TOPS-80

- Assists astronauts in moving their hands when working in zero gravity, and reduces risk of hand injury when doing intensive extravehicular tasks.
- Designed the circuit board that communicates with a Raspberry Pi, 3 Linear Actuators, 3 String Potentiometers, as well as power conversion which makes the overall footprint significantly smaller.

Freeze-Resistant Hydration System | Patent: US9939996, NASA MSC-TOPS-21

- Designed to keep water at 40 degrees Celsius, and can operate in temperatures as low as -40 degrees Celsius using induction heating technology.
- Developed the electrical and power distribution circuit that allows the prototype to be powered by both battery or wall outlet. It also allows the user to control the temperature of the liquid inside of the housing using thermistors, and a temperature controller that uses PID tuning to automatically adjust the temperature.

BlendBot Ink Mixer

- Made for the NYSID (New York State Industries for the Disabled) CREATE competition by providing a high-tech, high-torque solution for viscous ink used in screen printing.
- Developed the electrical system which includes a high torque motor that communicates with a Raspberry Pi, as well as power distribution, a rotary encoder that controls the speed and direction of the motor, and a screen that displays the speed and direction as well as a stopwatch.