

Robert Reid

📍 New Jersey, United States ✉ rreidmc@gmail.com ☎ 6095315281 📺 in/rreideng 🌐 RobOnTheWeb.net

SUMMARY

Self directed, confident, and always striving to achieve greatness with a sense of urgency. Experienced in navigating fast-paced learning environments. Great communication and critical thinking skills. Passionate about the theory and application of computer and software engineering.

EDUCATION

Pursuing a Master's degree in Electrical and Computer Engineering

Minor in Computer Science · Rutgers University · New Brunswick NJ · 2019 · 3.606

SKILLS

IT Services, Embedded Systems, Digital Logic Design, Soldering, Multimeters, Oscilloscopes, FPGA

Linux, Node JS, MongoDB, MySQL, Javascript, Java, HTML, CSS, Python, SQL, MATLAB, Quartus, LTSpice, Vivado, Vitis

PROJECTS

RISC Processor

September 2022 - December 2022

- Designed a single cycle RISC processor at the register transfer level.
- Performed timing verification and validation.
- Utilized SystemVerilog to program Altera TerAsic FPGA to verify functionality.

Gen Mobile Robot

- Fabricated a robot to emulate a full human hand and arm using an Arduino microprocessor and servos, utilizing a 6 axis gyroscope and flex sensors to capture the user's movement.
- Programmed a RESTful API using both 2.4Ghz ATT Bluetooth protocol and 801.1x Wifi protocol to send user data to the robot.

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August 2022 - September 2022

- Utilized React, ExpressJS, NodeJS, and Bootstrap to create a full stack website, deployed on Heroku.
- Includes increased level of detail about the Gen Mobile Robot and FRAMES as well as other projects, and functions as my portfolio.

EXPERIENCE

Technology Internship

ADCO Electrical Corp

June 2022 - August 2022, New York, NY

- Utilized Microsoft SQL Server and Power BI to request large amounts of data to create interactive and insightful diagrams.
- Extracted and cleaned SQL server data from IntelliBid libraries for the purpose of normalizing and recreating the tables using relational database management system techniques.
- Lead project to create and distribute manuals for upgrading manual electrical estimation process to Conest estimating software applications IntelliBid and SureCount.

IT Help Desk Technician

Rutgers University School of Communication and Information

October 2019 - Present, New Brunswick NJ

- Contributed to the timely troubleshooting of Mac and Windows OS computers, Ricoh and HP printers, and other peripheral equipment in 6 buildings.
- Provided the routine computer windows image installation and support for professional business process applications for over 100 full time and part time faculty members.
- Oversaw the proficient training of 4 new team members in order to delegate intermediate to advanced tasks with success.

Electrical Engineering Intern

Pollux Technologies @ p-betagem.com

December 2022 - June 2023, Piscataway, NJ

- Performed research and development of systems and techniques related to air filter quality sensing technology.
- Contributed to the design of the physical input embedded system button debouncing, clock division, amplifier, and filter design.
- Analyzed SAMD21 Cortex-m0 SoC to add additional UART functionality.
- Generated experiment GUI dashboard IP using JavaFX, JSerialComm, AWS SDK MQTTs libraries.
- Employed Amazon Web Services to gather data from system and save to AWS S3 over MQTTs.
- Performed reliability and availability testing and development to achieve a ~100% remote system accessibility.