Rashid Acker

Electrical Engineer & Full-stack Developer

Statement of Purpose

I'm a senior Electrical Engineering student who is also a self-taught Full Stack Engineer. I enjoy learning and solving complex problems as well as working in teams or by myself to accomplish goals.

Projects

2023-10- 2023-11

RF Plasma Generation for Use in Ion Thrusters

- Designed how the generator and power supply would interface with the transmission line
- Impedance matching was handled with a double stub match and matching RLC circuit
- Used CST studios to verify through simulation

2023-11- 2023-12

Microprocessor Arcade Game

- Created a replica of a popular arcade game in assembly using a PIC32 microcontroller and various electrical components
- LEDs lit up in a ring and a button had to be pressed when between two "goal posts"
- Game contained win states and loose states along with ramping difficulty

2023

Portfolio Website

- Used vanilla Javascript, HTML and CCS to set up a static website for displaying projects
- Website was deployed using github pages

2023

Full-Stack Workout Tracker

- Allowed for creating and destroying persistent workout with individual fields such as reps and weight.Used the MERN stack to create a workout tracker.
- Set up a database to store workouts and an API to communicate with said database.
- Front end rendering was handled with react

Education

2018-1- Present

University of Massachusetts Lowell, Lowell, MA

- Majoring in Electrical Engineering, Dean's list recipient

Courses

- **CS50, Harvard**
- **Electronics II, UML**
- **Microprocessors II & Intro to Embedded System, UML**
- **Eng. Electromagnetics II, UML**
- **Signals & Systems I , UML**
- **Intro to Biosensors, UML**

Personal Info

Portfolio
https://dihsarr.github.io/

Linkedin
https://www.linkedin.com/in/rashid-acker/

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Skills

Electrical Engineering
• Circuit Construction/Design, MATLAB, Lab Equipment, Soldering, Assembly(MIPS/AVR)

Full-Stack Development
• C/C++/C#, Git, Python, Javascript, Linux CLI, React, Mongodb, Node.js, Express, HTML, CSS, SQL

Leadership and Public Speaking

Proficiency with Microsoft Office Suite, Google Suite

Languages

English ●●●●● Native

Hobbies

Music
Drumming
Game Development
Dancing