Trevor Stauffer

Petersburg, Pennsylvania | linkedin.com/in/trevor-stauffer/ | tmstauff@gmail.com | (610) 413 - 6280

Dedicated, detail-oriented professional pursuing opportunities to apply skills in physics, programming and circuits to a diverse, results-driven organization. Leverages strong communication skills and technical ability to pursue innovative, practical solutions. Demonstrates a commitment to excellence by striving to overcome challenges with a phenomenal work ethic, adapting quickly to meet business needs.

Core Competencies
Problem-Solving | Programming | Communication | Adaptable | Detail-Oriented
Root Cause Analysis | Organization | Innovative

Education

Bachelor of Science in Physics | The Pennsylvania State University, University Park, PA
Relevant Coursework
- Intermediate Electromagnetism
- Electronics

Technical Skills

C/C++ | C# | .Net | .Net Maui | JavaScript | FreeCad | KiCad | PCBs | Oscilloscopes | Signal Generators | Microcontrollers | Circuits | Schematics | Python | Git | Bash | Rust | SQL | CAD | SPI | I2C | Android Development

Individual Projects

- Developed a proof of concept rideshare application in Visual Studio complete with a rider app, driver app and server to connect riders with drivers.
- Designed a printed circuit board for my temperature monitoring system for my home using KiCad and an ESP32 microcontroller that uploads the temperature to a server and is monitored by an Android application.
- Engineered and soldered a timer on perfboard using an Arduino microcontroller, 8-bit shift registers and an led driver with a battery monitoring system.
- Designed a minimal viable design printed circuit board for a Raspberry Pi RP2040 using KiCad.
- Developed a chess engine in C++ that can consistently beat beginner to early intermediate players.
- Designed an algorithm to automatically solve Sudoku puzzles.
- Optimized an algorithm that finds the amount of co-primes a number has for numbers 1 to 10^7, from $O(n^3)$ time to $O(nLog(Log(n)))$ time and from several millennia to solve to under a minute.

Certifications

Codecademy
C# | Python 3 | SQL | Data Analysis | Machine Learning | Intermediate JavaScript | HTML

Professional Experience

Grubhub, DoorDash, Uber, and Lyft | State College, PA
Independent Driver | October 2017 - Present
- Gave over 16,000 rides and maintained a 5.00 rating.
- Maintained a clean vehicle and a pleasant riding experience for riders.
- Went above and beyond by helping customers with any specific needs that they had.

Volunteering

Isha Foundation | Febraury 2017 – Present