Tristan J Pawlenty

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Objective

Fourth year computer science and engineering student, looking for my first entry level embedded firmware engineering position upon graduation in May 2024.

Education

- University of Iowa, Iowa City, IA
- B.S.E in Computer Science and Engineering — Expected graduation May 2024
- Minor in Mathematics
- University Honors
- GPA: 3.7/4.0

Relevant Work Experience

- *Software Engineering Intern,* Herzog Technologies Inc., May 2023 – August 2023
  - Worked in an independent team of 5 interns to develop two projects from the ground up using scrum methodology over the course of the summer
  - Developed a desktop application to track worker's locations relative to a designated safe zone utilizing C# and WPF
  - Developed a web-based application with a C# backend and an Angular front end to create a more user friendly and modern way for people to report issues with rail crossings. This project also made use of a Postgres database
- *Teaching Assistant,* University of Iowa College of Engineering, August 2022 – Present
  - Courses: Digital Design, Intro to Engineering Computing, Computers in Engineering
  - Resolved student's issues with their assignments by discussing concepts, debugging, and answering questions both over email and during office hours.
  - Fairly and accurately assessed student performance on programming, and written assignments
  - Individually led a Digital Design lab section of 30 students on a biweekly basis, in which students learned the basics of digital logic and FPGA

Relevant Coursework

- Computers in Engineering. Language: C++
- Software Design. Language: Java. Skills: GUI, Networking, Multithreading
- Embedded Systems. Languages: Assembly, C. µC: ATmega328p
- Control Systems. Skills: Matlab/Simulink, Classical Control Theory.
- Software Engineering. Languages: Ruby. Skills: TDD, Agile.
- Operating Systems. Languages: C, Bash
- ECE Design. Languages: C, Java. Skills: Design process. µC: ESP32

Skills

Languages
- C/C++
- C#
- Java
- Python
- Assembly
- Bash

Software
- Git/SVN
- Jira
- MATLAB
- Databases
- Linux shell
- Wireshark

Hardware
- Microcontrollers (Atmel, ESP)
- Oscilloscope
- Soldering
- Circuit prototyping
- I2C, 1-Wire, SPI