PETER YEHL

OBJECTIVE

Seeking an entry level position that leverages embedded software development practices and offers opportunities for professional growth.

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EDUCATION

Iowa State University
Spring 2026

Bachelor of Science
Computer Engineering

GPA 3.6 / 4.0
Major GPA 3.7 / 4.0

SKILLS

Embedded Systems
- C/C++ Embedded Programming
- Linux Dev, GNU Toolchain
- GDB Debugging
- Arduino Development
- VHDL, LTspice, Circuit Analysis

Software Tools
- Bash
- GitLab / GitHub - CI/CD
- MATLAB, Simulink, LTSpice

Hardware Interfaces
- UART, GPIO, CAN
- Oscilloscopes, DMMs, SMUs
- PuTTY Serial Communication

Scripting & Software Development
- Python, Java
- Jira - Project Tracking
- Database Management (MySQL)
- Data Structures and Algorithms

ACTIVITIES & AWARDS

- Engineers for a Sustainable World
- IEEE
- Mountaineering and Climbing Club
- Blessed Birthdays - Leader
- Dean's List

WORK EXPERIENCE

Embedded Software Engineer Intern — Pella, IA
Vermeer Corporation — 2025

- Developed a C++/Python file conversion tool (JSYM to DBC, ASC to MF4) with pybind11, achieving <50 milisecond conversion time
- Designed a modular frontend-backend architecture to streamline internal tooling
- Modified a R427 controller, altering firmware to add a custom menu option
- Collaborated through GitHub for peer-reviewed code integration and used Jira to track tasks and feature progress
- Participated in daily Agile stand-ups, providing updates and collaboration with teammates

Engineering Intern — Ames, IA
City of Ames — 2024

- Prepared CAD and GIS documentation for infrastructure projects in order to optimize the planning and execution phases
- Developed and maintained project records, "as-built" drawings, and progress payments
- Performed surveying and GPS marking using GNSS equipment

TECHNICAL PROJECTS

MIPS Single Core Processor | VHDL

- Designed and implemented a single-core, 5-stage pipelined processor capable of executing MIPS assembly instructions
- Developed key components that included registers, multiplexers, ALU, forwarding logic, and hazard detection units, to construct a fully functional datapath with proper logic control

Riff Radar | Java

- Developed a mobile application connecting music fans with bands, utilizing Android Studio, IntelliJ, and Spring Boot
- Integrated Ticketmaster, Google Maps, and Spotify APIs
- Utilized Maven for build automation and MySQL for database management
- Managed code with Git and GitLab; documented with Swagger

iRobot | C

- Simulated a hospital delivery robot using manual navigation through a websocket-rooted GUI
- Utilized an ARM Cortex M4 microcontroller to conduct bit field manipulation through datasheet analysis
- Deployed UART, ADC, interrupt, memory mapping, and PWM techniques