WOOJAY POYNTER

Software Engineer

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Profile

A driven software engineer with a strong interest in microcontroller firmware development and embedded hardware development.

Up-to-date in modern programming paradigms and development methodologies.

A fast and constantly-curious learner.

Technical Skills

- C / C++
- Python
- JavaScript
- Test
- Virtual Env.
- SQL / NoSQL

Experience

Software Engineer & Partner, Modis GmbH, Wien, AT   2016-Present

- Develop and test ARM-based firmware using C and Assembly
- Test and debug both hardware and firmware on logic boards using custom testing hardware and software
- Develop custom Linux image using virtual environment
- Develop in-house CAN protocol sniffer / tester

Professor, Southwestern Oregon Community College, Oregon, USA   2008-2017

- Instruct math, sanitation, management, and culinary classes
- Instruct baking and pastry curriculum
- Received a gold medal in individual category in 2012 Olympiade der Köche in Erfurt, Germany

Education

MA, Economics   1999-2002
UNIVERSITY OF OKLAHOMA, OK, USA

BS, Computer Science   1992-1996
MICHIGAN TECHNOLOGICAL UNIV, MICHIGAN, USA

Personal Projects

Miniature self-balancing robot with PID logic
Wireless Mesh Network with NRF24L01+ Radios

Job Related Skills

Real-Time Operating System (RTOS)
M2M Protocols like CAN, SPI, I2C, RS485, Ethernet, and UART
Wireless Protocols like 802.11, Bluetooth, and LoRA
Protocol Debugging with Segger SystemView & Logic Analyzer
Virtual Development using Docker and Vagrant
Linux Development Environment and Toolchains
Self-Motivated and Team Player

Interests

Kalman Filter, Wireless Mesh, Rust, Computer Vision, and Automation