Michael Forester Hillendahl

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Firmware Engineer seeking to hone skills in collaborative environment

Scholar

Univ of Southern Cal BS Electrical Engr Viterbi School of Engr Class of 2010

Embedded Developer

I2C • SPI • Serial • Parallel UART • JTAG • GPIO • Drivers Data Structures • Algorithms ARM • Atmel • Kiel • Altium

Versatile Coder

C • C++ • Java • JS • OOP Python • Perl • Ruby HTML • CSS • XML • JSON VS • C::Blocks • Dev-C++

Human

Musician • Performer Hiker • Climber Enthusiast • Tinkerer Brother • Son

Experience

Electronics Engineer at Marshall Electronics Inc (2010-present)

• Bare-metal embedded C for video and ARM processors

Achievements

Design

Developed, maintained flagship product lines

• Designed feature-set, UI for next generation of devices

Development

• Automated time-intensive tasks, reduced overhead by over 95%

Accelerated dev team's ability to launch new products

Efficiency

• Increased responsiveness by over 100% by rewriting key algorithms

Maximized reliability and accuracy of core software components

Research

• Ensured market relevance via competitor and industry research

• Prioritized time/cost efficiency testing software and hardware options

Responsibilities

Prototyping

• Implement chip-level communication (I2C, SPI, parallel)

• Develop and demonstrate example features and UI designs

Implementation

• Write drivers for peripheral components

Develop custom tools to automate repetitive tasks

Refinement

• Finalize feature/UI design

• Balance value with projected implementation time

Production

• Interface with Testing team, optimize artifact resolution

• Document unit preparation procedures for production team

Support

• Implement new features and hardware for new products

• Implement customer-specific design requests

Projects & Skills

Mobile Dev · Android Phone

- Established multiple dev/testing workflows
- Created various apps for Android device

Web Dev • Chrome Browser

- Designed & implemented Google Chrome extension
- Achieved proficiency with relevant JSON, HTML, and JS

Game Dev · Windows OS

- Languages: C, C++, Java, Ruby, Python, Perl, Batch
- Libraries: SFML, OpenGL, OpenAL

Hands-on

Soldering, Assembly Woodwork, Metalwork

Equipment

Oscilloscope. Multimeter, Function Generator

Strengths

Leadership & Teamwork Motivated & Fast Learner