Michael Forester Hillendahl

mhillendahl.com/resume.pdf • mf.hillendahl@gmail.com • linkedin.com/in/mhillendahl • Los Angeles, CA

Firmware Engineer seeking full-time role in Southern California

Seeking best fit 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 • ISON VS • C::Blocks • Dev-C++

Human

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

Experience

Electronics Engineer at Marshall Electronics Inc (2010-2017)

• 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

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

• Developed and demonstrated example features and UI designs

Implementation

Wrote drivers for peripheral components

Developed custom tools to automate repetitive tasks

Refinement

Finalized feature/UI design

• Balanced value with projected implementation time

Production

• Interfaced with Testing team, optimized artifact resolution

• Documented unit preparation procedures for production team

Support

• Implemented new features and hardware for new products

• Implemented customer-specific design requests

Mobile Dev · Android Phone

- Projects & Skills 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