Michael Forester Hillendahl

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

Firmware Engineer exploring **full-time** roles near **Orange County, CA**
Seeking best fit to hone skills in collaborative environment.

Scholar	**Embedded Developer**	**Versatile Coder**	**Human**
Univ of Southern Cal	I2C • SPI • Serial • Parallel	C • C++ • Java • JS • OOP	Musician • Performer
BS Electrical Engr	UART • JTAG • GPIO • Drivers	Python • Perl • Ruby	Hiker • Climber
Viterbi School of Engr	Data Structures • Algorithms	HTML • CSS • XML • JSON	Enthusiast • Tinkerer
Class of 2010	ARM • Atmel • Kiel • Altium	VS • C::Blocks • Dev-C++	Son • Brother

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

Hands-on
Soldering, Assembly
Woodwork, Metalwork

Web Dev • Chrome Browser
• Designed & implemented Google Chrome extension
• Achieved proficiency with relevant JSON, HTML, and JS

Equipment
Oscilloscope. Multimeter,
Function Generator

Game Dev • Windows OS
• Languages: C, C++, Java, Ruby, Python, Perl, Batch
• Libraries: SFML, OpenGL, OpenAL

Strengths
Leadership & Teamwork
Motivated & Fast Learner