

Michael Forester Hillendahl

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Electronics Engineer exploring full-time roles near Orange County, CA

Seeking to leverage technical experience in a collaborative role.

Scholar

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

Project Manager

Application Engineering
Release Engineering
Pre-Sales Engineering
Systems Engineering

Technical Expert

C/Java • Python/Perl • HTML/CSS
I2C • SPI • Serial • Parallel
UART • JTAG • GPIO • Drivers
Data Structures • Algorithms

Human

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

Experience

Electronics Engineer at Marshall Electronics Inc (2010-2017)

- Managed development, release, and support of flagship platforms

Product & Project Management

- Pre-Sales • Managed Sales/Engineering coordination to document, implement, and deliver custom-tailored products to high profile customers

- R & D • Defined product spec, maximized cost/time efficiency of design reqs
- Adjusted dev plan or spec as necessary when technical issues arose

- Testing • Rewrote algorithm for project workflow between Engineering and QA
- Optimized artifact resolution and minimized development time

- Release • Managed technical organization of product and firmware releases
- Spearheaded related interdepartmental coordination

- Production • Spearheaded streamlining of R&D procedures for Production team
- Managed technical implementation in production environment
- Instructed technicians on proper procedures for technical tasks

Technical Achievements

- Firmware • Wrote bare metal embedded C for video and ARM processors
- Increased responsiveness >100% rewriting key algorithms

- Design • Ensured market relevance via competitor and industry research
- Created feature-set and UI for next generation of devices

- Efficiency • Automated panel calibration, reduced overhead by over 95%
- Accelerated dev team's ability to launch new products

- Lifecycle • Adapted platforms for longevity and flexibility over span of years
- Updated legacy systems for compatibility with next-gen products

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
Apt & Driven Learner