Michael Hillendahl, EE

Bachelor of Science, EE • University of Southern California • Viterbi School of Engineering • Class of 2010
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Electrical Engineer seeking full-time opportunity in **Southern California**

Driven to deliver solutions to complex problems and collaborate in technical roles

Experience	Prototyping, R&D	FW & Code	Development Tools
Weapons Manufacturing	Anlg/Dig Circuit Dsn	Clock, Timer, Interrupt	STM32 Ecosystem
Rapid Prototyping	Schematic, Layout	I2C, UART, GPIO, DMA	CubeMX & CubeIDE
Circuit Design & Analysis	Firmware, Iteration	C/++/# • Python • VBS	Keil MDK & μVision
Research & Development	Test, Troubleshoot	I2C • SPI • UART • JTAG	Eagle, Fusion 360

Defense

Electrical Engineer, Research & Dev at Design West Technologies (2020-2023)
• Development and mfg of weapons and CBRN detection for U.S. Armed Forces

LSEQ

<u>Launch Sequencer</u> (Vertical Launch System) for U.S. Navy
• Prepared and executed mfg plan for electromechanical subassemblies
• Cradle-to-grave ownership of electronics in reqmts, test, and production

FELT

<u>Field Expedient Leakage Test</u> device for U.S. Armed Forces
• Wrote and tested embedded C application layer for ARM processor
• Designed and implemented operational state machine and UI/UX model

FFHA

<u>Fan Filter Housing Assembly</u> for U.S. Armed Forces
• Spearheaded motor controller electronics testing for next gen platform

R&D

• Rapid prototyping of electronics devices for U.S. Armed Forces
• Contributed to design, architecture, schematic, layout, firmware, test

Solutions

Design
Pre-Sales
Go-Live

Solutions Engineer, Consultant at Laserfiche (2018-2019)
• Constructed, deployed digital solutions for enterprise workflow processes
• Designed, implemented, customized multi-server system architecture
• Configured databases, built repositories, managed service accounts
• Lead requirements gathering with clients, drafted statements of work
• Deployed, promoted solutions across Dev, QA, Stage, and Prod environments

Electronics

R&D
Development
Production

Electronics Engineer, Development at Marshall Electronics (2010-2017)
• Developed audio-video electronics for broadcast & photo industries
• Board bring-up, circuit analysis, schematic capture, layout, firmware
• Designed & executed interdepartmental iterative testing strategy
• Managed technical organization of product and firmware releases
• Designed streamlined procedures and tools for Production team

Consulting

Design

Computer Architect, Independent (2012-current)
• Designed, sourced, constructed, initialized, maintained custom computers
• Interviewed users, analyzed use cases, selected appropriate hardware
• Established budgets, scaled accordingly, made informed sacrifices

About Me

Human - Father, Husband, Son, Brother, Friend
• Musician, Hiker, Tinkerer, Handyman