

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

Weapons Manufacturing
Rapid Prototyping
Circuit Design & Analysis
Research & Development

Prototyping, R&D

Anlg/Dig Circuit Dsn
Schematic Capture
Firmware, Iteration
Layout, Testing

FW & Code

Clock, Timer, Interrupt
I2C, UART, GPIO, DMA
C/++/# • Python • VBS
I2C • SPI • UART • JTAG

Development Tools

STM32 Ecosystem
CubeMX & CubeIDE
Keil MDK & µVision
Eagle, Fusion 360

Defense

Electrical Engineer, R&D at Design West Technologies (2020-2023)

- Development and mfg of weapons and CBRN detection for U.S. Armed Forces

Manufacturing

Launch Sequencer for U.S. Navy Vertical Launch System (2022)

- Prepared and executed mfg plan for electromechanical subassemblies
- Cradle-to-grave ownership of electronics reqmts, test, and production

Motor Control

Fan Filter Housing Assembly for U.S. Armed Forces (2021)

- Spearheaded motor controller electronics testing for next gen platform
- Conducted KT, researched, recovered, documented legacy procedures

Electronics

Field Expedient Leakage Test device for U.S. Armed Forces (2020)

- Wrote and tested embedded C application layer for ARM processor
- Designed and implemented operational state machine and UI/UX model

Research & Dev

- R&D, rapid prototyping of CBRN detection electronics for U.S. Armed Forces
- Design, architecture, schematic, layout, firmware, test, production

Solutions

Solutions Engineer, Consultant at Laserfiche (2018-2019)

Design
Pre-Sales
Go-Live

- 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

Electronics Engineer, Development at Marshall Electronics (2010-2017)

R & D
Development
Production

- 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

Computer Architect, Independent (2012-current)

Design

- Designed, built, customized custom workstations for private customers
- Requirements gathering, use case analysis, budget setting, parts sourcing

About Me

Human - Father, Husband, Son, Brother, Friend

- Musician, Hiker, Tinkerer, Handyman