MIKE THIELVOLDT

DEEP-STACK DEVELOPER

925.899.8407
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LinkedIn GitHub
Website

Veteran mechanical engineer and hardware hacker seeking embedded engineering opportunities.

PROFICIENCIES

Javascript ES6
HTML5 / CSS3
React
MongoDB
PostgreSQL
Nginx
C
C++
Python3
Atmega, PIC

Git
Linux/Unix admin

PCB design / layout
Mechanical design
CAD (Solidworks)
Prototyping

PATENTS

Music-reactive fire display
US8823714B1
(licensed)

Finger-operated accelerator
US9746872B2

EDUCATION

2007 Stanford University
Masters, Mechanical Eng.
Energy Systems Concentration

PROJECTS

Portfolio Project - ListPalette.com

May. 2020 – Present | Albany, CA
Personal project exploring tree structures in web app context.

Portfolio Project - LiteInvite.com

Mar. 2020 – Present | Albany, CA
Personal project exploring full web stack, with focus on UX

Math/Science Tutor - Bay Area Learning Partners

Oct. 2018 – Aug. 2019 | Menlo Park, CA
Tutored college chemistry, high school math, test prep.
• Dramatically improved student scores and helped scale.

Flame Effect Product Engineer - LiveSpark, Inc.

Oct. 2008 – Jul. 2018 | San Francisco, CA
VP, Engineering building novel 'high definition' flame effect.
• Owned most technical aspects of core-product development from concept to early production.

IoT Fish Feeder - Contractor for Brunet Lab - Stanford

Jul. 2017 – Sept. 2017 | Stanford, CA
Micropython on ESP-32 with PIC slave for sensor, actuator drive + video. Monitoring over MQTT
• Delivered system revision to support ageing research

Automotive Engine control project: - ECUality1

Sept. 2015 – Oct. 2019 | Palo Alto, CA
Implemented open-source ECU: C++ on 8-bit microcontroller
• Vastly improved emissions, power and mileage over stock

Watersport light - AquaVolta LLC

Sept. 2015 – Dec. 2017 | Martinez, CA
Concept to qty-300 of novel action-sports lighting equipment
• Website design
• Wrote firmware in C for extreme-low-power electronics.

Biomass Feed System - All Power Labs

Feb. 2014 – Aug. 2014 | Berkeley, CA
Wrote safety-critical industrial automation firmware and designed hardware for semi-autonomous biomass gasifier.
• Concept to production, integrating quickly with team.