# MIKE THIELVOLDT

**DEEP-STACK DEVELOPER**

925.899.8407
mthielvoldt@gmail.com
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
B.S., M.S., 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.