

## Mathew G. Mrosko

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- OBJECTIVE** Dedicated Firmware/Embedded Engineer pursuing a challenging and rewarding development position.
- EDUCATION** *Bachelor of Science, Computer Science*  
University of California at Riverside  
Riverside, CA
- COMPUTER SKILLS** *Languages & Software:* C/C++, linux device drivers, Bash/sh scripting, git, apache, php, xkcd, sed/awk, JIRA, Bugzilla, Jenkins, L<sup>A</sup>T<sub>E</sub>X  
*Operating Systems:* Linux (Debian, Ubuntu, minimal Arch experience), ThreadX
- EXPERIENCE**
- Fitbit, San Diego, CA July 2017 - Present
- Staff Firmware Engineer/Technical Lead* September 2018 - Present
- Lead small team in planning, design, and development of major new features on an existing platform.
  - Work directly with product teams for planning, scheduling, and design.
  - Technical planning of sprints for UI team.
- Staff Firmware Engineer* July 2017 - Present
- Develop and maintained wearable UI stack including driver, glue layers, and applications.
  - Worked with UX team in planning estimations, priority management, and implementation risks.
  - Owned basic font subsystem, wrote build scripts for fonts, codepoint checking, i18n verification.
  - Wrote quick scripts for increasing language QA procedures.
  - Verification work of new hardware SoCs, touch panels, and display modules.
- JetHead Development, Inc., Carlsbad, CA July 2005 - July 2017
- Senior Software Engineer* January 2012 - July 2017
- Lead small team in porting and new development of linux device drivers for digital set top boxes.
  - Work directly with manager for planning, scheduling, and tasking of engineers.
  - Lead other engineers, reviewing code, writing new code, testing, debugging and bug fixing.
  - Drive development through multiple fast deadlines for multiple demos.
  - Integrated new tuning solution on reference platforms and new hardware.
- Configuration Management Board Representative* January 2017 - July 2017  
*Configuration Management Team Technical Lead* Fall 2011 - January 2017
- Organize weekly meetings for CM engineers across teams.

- Advise cross-team CM leads on company-wide decisions regarding CM infrastructure.
- Deploy gitweb+gitolite for entire company.

*Driver Team Lead*

Winter 2008

- Directly communicate between high-level management of outside clients.
- Manage driver portion of development work on new and existing set top box platforms.
- Linux device driver maintenance on multiple deployed set top box platforms.
- Automated/scripted code review of multiple vendors' patch submission.
- Deployed git for a small team, and laid groundwork for the entire company to move from svn to git.
- Wrote procedures and documentation integral to managing large volume of change-sets from multiple vendors.

*Driver Team Staff Engineer*

Summer 2005

- Initial code and unit testing for pre-release hardware.
- Trick modes code using multiple security APIs for demo.
- Experiment with potential watermarking (fingerprinting) options.
- Test plan development for use-case testing of client/server software.

sw33t Graphic Design, Apple Valley, CA

*Software Consultant*

June 2007 - June 2008

- Design and write WordPress plugins for custom client-requested features.
- Work with owner/graphics designer on use cases, layout, and deployment.
- Manage shared hosting server.

**OTHER**

*Falcon Pi Player*

Contribute to Open Source project for playing back sequence data on a Raspberry Pi.

*RFPixelControl*

Contribute to Open Source project for Arduino clones using Nordic nRF wireless modules.

*Chumby hacking*

Import and hack on Chumby kernel code for small home-projects.

*Sprinkler Controller*

Designed a custom sprinkler controller to control 24V A/C solenoids using RS-485.

**LINKS**

GitHub - <https://github.com/Materdaddy>

LinkedIn - <http://www.linkedin.com/in/matmrosko/>