

# AARON MA

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## EDUCATION

**Hong Kong University of Science and Technology** – *M.S. in Electronic Engineering* Sept 2016 – May 2017

Relevant Courses: Embedded Systems, Advanced Computer and Network Architectures, IP Networks, Image and Video Signal Processing

**University of California, Irvine** – *B.S. in Electrical Engineering* Sept 2010 – Mar 2015

Specialization: Digital Signal Processing

Relevant Courses: Programming in MATLAB, Signals and Systems, Machine Vision

## EXPERIENCE

**Panasonic Avionics Corporation** – *Lake Forest, CA* July 2017 – Present

*Test Engineer, Airlines Systems*

- Troubleshoot Android/Linux software issues on in-flight entertainment and global communications (IFEC) systems.
- Conduct integration and validation testing in Linux environment.
- Construct scripts in Python and bash to automate testing procedures.
- Manage issue assignments for system deployment, integration, test, and software release.

**Facebook** – *Menlo Park, CA* June 2015 – July 2016

*Public Content Contractor, Product Data Integrity*

- Increased team accuracy metric by 10% by creating and leading team training procedures for 30+ hires.
- Defined evaluation guidelines for increased relevancy in discussions within Facebook commenting ecosystem.
- Evaluated qualitative data for data science team to connect users with relevant Facebook pages.

**Conexant Systems** – *Irvine, CA* Sept 2014 – June 2015

*Engineering Intern, Product Application Engineering*

- Evaluated company ASIC devices against certification requirements using ACQUA to guarantee passing results before official submission and assessment.
- Created audio data samples in controlled environments to meet specifications set by DSP team.

**National Taiwan University** – *Taipei, Taiwan* June 2014 – Aug 2014

*Laboratory Researcher, Multimedia Information Retrieval Lab*

- Developed MATLAB script that constructed frequency chromagrams, allowing the team to estimate the western musical key of given audio files without playback.

## RELEVANT PROJECTS

**Compare.AniList** – *Python/GraphQL/SQLite*

- Data visualization web tool that queries user AniList Anime ratings, compares them against global and friend data, and outputs visuals to a webpage to provide users with better insight into their Anime preferences.

**Android Applications for Productivity** – *Java/Android Studio*

- Android application suite including basic games, pedometer, sketchpads, dice generators, and low power Bluetooth remote controls to exercise Java object oriented programming properties.

**Programmable Multi-Effects Pedal for Electric Violins** – *C/Code Composer*

- Digital multi-effects pedal with three processing effects designed for the electric violin using digital signal processing properties on Texas Instrument's DSP development hardware in fulfillment of UC Irvine's senior design project.

## TECHNICAL SKILLS

**Programming Languages:** Java (Strong), Python (Strong), HTML/CSS (Proficient), Bash (Proficient), SQL (Proficient)

**Development Tools:** Linux/Unix, GitHub, PostgreSQL/SQLite/GraphQL, Flask, Eclipse, Android Studio

**Supplemental Courses:** Object Oriented Programming in Java, Visualizing Data with Python, Data Structures and Algorithms, Databases and Web Data