

Maxwell McKinnon

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EXPERIENCE

Apple, Cupertino — *Level 3 Audio SW Engineer*

2017 - Present

Sw/hw automation, dsp, and audio data analysis

Maxim Integrated, San Jose — *MTS Audio Applications*

2014-2017

Led a four-person automation team through two revisions of Audio team silicon

Built two automation tools: xTalk and INLDNL

Built and presented demos at CES 2017 in Chinese and English

Maxim Integrated, San Jose — *AMTS Audio Applications*

2013-2014

Implemented two microphone solution to digital cocktail party problem (ICA)

Mentored five field and manufacturing engineers from our China team

Maxim Integrated, Sunnyvale — *Intern Audio Applications*

2011 and 2012

Learned to automate equipment using I2C and GPIB with C#, Python, and VBA

Designed and built (somewhat in that order xD) a rotator for HATS with Arduino, stepper motors, and laser cutting

EDUCATION

University of Idaho, 3.8 — *M.S. CS*

Oregon Tech, 4.0 — *2 x M.S. in Applied Math and EE*

PROJECTS

Generic EVKIT Hardware GUI — *For Maxim Integrated*

Built a tool to automatically generate EVKIT GUIs' register maps by parsing data in Contour. GUI is generated and ready to go on day one of new silicon. Made a spinoff of the tool to generate Linux ALSA drivers.

SKILLS

Embedded HW/SW
Audio
Embedded Automation
DSP

Python
Anaconda
Jupyter
Pandas
ML (SK)
DL (TF, PT, Keras)

Swift
C#
MATLAB
C/C++
Linux/Android & ALSA
JS/HTML/CSS

Chinese

AWARDS

Maxim Toastmaster
2015 Competition
1st Place

San Jose Toastmaster
2015 Competition
3rd Place

More?

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