Austin Pursley

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EDUCATION: **Texas A&M University, College Station, TX**
Bachelor of Science in Electrical Engineering
Expected: May 2018
GPA: 2.951

ACADEMIC PROJECTS

Image Processing For Face Health Metrics, Smart Mirror Senior Design 2017-2018

- Used C++ and OpenCV library to extract health metrics from images of faces.
- Skin lesion/blemish detection with 92% accuracy.
- Lesion classification by analyzing color in HSV color space, between dark (87% accuracy) and red (91% accuracy) spots.
- Skin temperature metric from 80x60 thermal images.
- Recently, working closely with team members to integrate with their subsystems

Member AggiE-Challenge Research Project, Biomaterial Manufacturing 2016-2017

- Working in a team of undergraduates for two semesters to develop a photolithography tool to be used in biomedical engineering hydrogel research.
- Picked out the DMD light projection hardware platform based on budget and requirements. Worked together with teammate to attempt to modify that platform's optics for UV light.

PERSONAL PROJECTS

Personal Website Jun 2017–2018

- Created a personal website using HTML, CSS, JavaScript, and Python.

Python Favorite Color Toy Program May 2017

- Program presents user with a set of colors to choose favorites from, this repeats and each iteration of colors gets closer to the user's favorite color in mind.

Arduino Music Tuner Haptic Feedback May 2015-Aug 2016

- Chromatic digital music tuner with vibration motors for feedback, prototype on breadboard.

LED Shelf Room Decoration Jun 2016-Aug 2016

- Shelf decorated with LEDs, programmed to light up in various animations.

OTHER

A&M Symphonic Winds Band: Saxophone Player Fall 2014-Spring 2018

Software: Microsoft Office, C++, Python, MATLAB, OrCAD, LabVIEW