

# Tyler M. Mau

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## Technical Skills

### Programming Languages

- C, Java, Python, C++, VBA
- Ruby, HTML, CSS, JavaScript
- Swift, AppleScript
- MIPS Assembly

### Relevant Knowledge

- Object Oriented Programming
- POSIX Multithreading
- PCAP Library (Network Tracing)
- JavaFX Library
- ATmega328P Microcontroller

### Operating Systems

- Windows, OS X, Linux
- CPU Scheduling Algorithms
- Memory Management
- File Systems (FUSE)

### Development Environments

- Unix Terminal
- Xcode (C/C++/Swift)
- Visual Studio (C/C++)
- Eclipse/Netbeans (Java)

## University Courses

### Software Courses

- Object Oriented Programming
- Systems Programming
- Operating Systems
- Computer Networks
- Autonomous Mobile Robotics
- Computer Security

### Hardware Courses

- Computer Architecture
- DC/AC Circuit Analysis
- Time Signals and Systems
- Semiconductors
- Integrated Circuits
- Micro-controllers

## Education

### California Polytechnic State University, San Luis Obispo

- **5th Year** - Graduating June 2016
- B.S. in **Computer Engineering**
- **GPA: 3.278** - Dean's List 4 Times

## Professional Experience

### 2015 | Adobe Systems Incorporated

#### Security Engineering Intern

##### Gitrob (Ruby/HTML/JS/PostgreSQL) | June - September 2015

- Scans Github repositories for potentially sensitive information
- Added core features to this open-source security tool

### 2011 - 2014 | The Aerospace Corporation

#### Software Development Intern

##### Multi-Touch Display Application (JavaFX) | June - September 2014

- Designed and developed an interactive timeline application

##### Technical White Paper | June - September 2012

- Co-authored technical research paper on the helium shortage

More projects and details can be found on [tylermmau.com](http://tylermmau.com)

## Projects

### Artificial Neural Network for Robot (C) | October 2015

- Implemented ANN with backpropagation for autonomous motion

### Underwater ROV Design | September 2015 - Present

- Ongoing multi-disciplinary design project for Northrop Grumman

### LED Heart-Rate Monitor Jacket (C) | May - June 2015

- Pulses to heartbeat and changes color based on ambient temperature

### Juicy Pong Game (HTML/CSS/JavaScript) | February 2015

- Voted "best game" of the Intel XDK Game Jam at Cal Poly

## Leadership Experience

### Eagle Scout - Boy Scouts of America (8 Years)

- Eagle Scout, Order of the Arrow, Patrol Leader, Troop Guide, Historian

### University "Week of Welcome" Orientation (2 Years)

- Orientation Leader, Event Staff

### Music Programs (Clarinet - 13 Years)

- University Marching Band Section Leader (2 Years), Uniform Manager