Tyler M. Mau

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Technical Skills

Programming Languages
- C, Java, Python, C++, VBA
- Ruby, HTML, CSS, JavaScript
- Swift, AppleScript

Relevant Knowledge
- Artificial Neural Networks
- Monte Carlo Localization
- Computer Vision
- PID Controllers
- AHRS Algorithms
- Quaternion Mathematics
- AVR Micro-controllers

Development Environments
- Windows, OS X, Linux
- Unix Terminal
- Xcode (C/C++/Swift)
- Atmel Studio (AVR)
- 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
- Computer Vision

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: 3.312** - Dean's List 5 Times

Professional Experience

Adobe Systems Incorporated | 2015
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

The Aerospace Corporation | 2011 - 2014
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

Projects

Unmanned Aerial Vehicle (Quadcopter) | September 2015 - Present
- Self-designed control system on ATmega328p micro-controller

Underwater Remotely Operated Vehicle | September 2015 - Present
- Autonomous lateral stabilization using computer vision (OpenCV)

Ground Robot | January 2016 - Present
- Design and development for Cal Poly's annual robotics competition

LED Heart-Rate Monitor Jacket | May - June 2015
- Pulses to heartbeat and changes color based on ambient temperature

Leadership Experience

Eagle Scout - Boy Scouts of America (8 Years)
- Eagle Scout, Order of the Arrow, Patrol Leader, Troop Guide, Historian

Music Programs (Clarinet - 13 Years)
- University Marching Band Section Leader (2 Years), Uniform Manager