

Michael Pratt

CONTACT INFORMATION	608 Deerhaven Ct Hillsborough, NC 27278 mobile: +1 (919) 271-4250 e-mail: michael@pratt.im	github.com/prattmic
OBJECTIVE	To expand my knowledge of embedded and operating systems through internship experience.	
RELEVANT EXPERIENCE	Google , Mountain View, California <i>Software Engineering Intern</i> , Google Chrome OS May – August 2013 <ul style="list-style-type: none">• Developed support to boot an ARM device from embedded MMC• Ensured eMMC boot met the Chrome OS boot security requirements• Worked primarily on the U-Boot bootloader and Chrome OS Verified Boot• Interfaced with ARM SoC peripherals and the Linux kernel• Learned to work on a fast-moving project with several other developers Aerial Robotics Club , North Carolina State University Student Organization <i>Payload Team Lead</i> August 2012 – present <i>Member</i> August 2011 – present <ul style="list-style-type: none">• Develop and maintain hardware and software solutions for unmanned aerial systems• Synthesize subsystems into a complete, autonomous, unmanned aerial system• Built interface libraries to a machine vision camera and autopilot with the Python C API• Designed and implemented aerial imaging pipeline, from image capture aboard the aircraft to target recognition and permanent image storage on the ground• 2013 team at AUVSI Student UAS competition took home 2nd place overall out of 35 teams F4OS , Personal Project <i>github.com/prattmic/F4OS</i> May 2012 – present <ul style="list-style-type: none">• Real-time operating system supporting several ARM Cortex-M4 microcontrollers• Soft real-time scheduling using a preemptive rate-monotonic scheduler• Modular memory management subsystem, with multiple memory management schemes• Flexible object framework allows typed resources to define unique operations	
OTHER EXPERIENCE	Orange County Schools , Hillsborough, North Carolina <i>Information Technology Intern</i> January – June 2011 <ul style="list-style-type: none">• Maintained and repaired school computers and network• Assisted in initial implementation of computer ghosting system• Worked independently to solve IT problems Boy Scouts of America , Durham, North Carolina <i>Senior Patrol Leader</i> January 2010 – January 2011 <i>Eagle Scout Award</i> October 2010 <ul style="list-style-type: none">• As Senior Patrol Leader, led troop meetings, activities, and leadership council• For Eagle Scout project, designed and led project to improve an elementary school nature trail	
PROGRAMMING SOFTWARE	C, Python, ARM Assembly, Go, Bash Linux, Git, GDB, Make, CADsoft Eagle, L ^A T _E X, HTML	
EDUCATION	North Carolina State University , Raleigh, North Carolina <i>B.Sc. Computer and Electrical Engineering</i> August 2011 – May 2015 <ul style="list-style-type: none">• Current GPA: 4.00/4.00• Courses include: Elements of Controls, Microelectronics, Introduction to Embedded Systems, Discrete Control Systems (Fall 2013, Grad), Compiler Optimization and Scheduling (Fall 2013)	
HONORS AND AWARDS	Dean's List, North Carolina State University, Fall 2011 through Spring 2013 Goodnight Scholarship, North Carolina State University, 2011 People Helping People Scholarship, NC State Employees' Credit Union, 2011 Eagle Scout Award, Boy Scouts of America, 2010	