

# GEORGE MORGAN

*Interested in internship opportunities for summer 2018.*

(559) 348-7090

george@george-morgan.com

## EXPERIENCE

- C, C++, Assembly, Verilog, Objective-C, Rust, Python, and Java
- Low-level system software, operating systems, kernels, firmware, drivers, loaders, file systems
- ARM, AVR, MIPS, x86 architectures
- SPI, USART, I2C, USB, TCP/UDP protocols
- Flash, RAM, EEPROM, PWM, GPIO, and timer peripherals
- FPGA, PMIC, LDO, TTL Logic, Crystals/Oscillators
- Altium Designer, EAGLE, Autodesk, Blender
- JTAG/SWD Segger debuggers, Saleae logic analyzers, oscilloscopes, signal test equipment
- vim, gcc, clang, gdb, lldb, make, git, avrdude, Keil, Xcode, and brew
- libc, avr-libc, newlib, libusb, LLVM, SDL, IOKit, CoreFoundation
- Arduino, Raspberry Pi, Beagleboard
- iOS and Mac application development

## EDUCATION

*Computer Engineering*

[August 2015 - present]

### **Rochester Institute of Technology**

Currently pursuing a bachelor's degree in Computer Engineering.

## WORK

*Software Engineering Intern*

[May 2017 - August 2017]

### **Apple**

I lead a project on the Foundation team to create the infrastructure needed for debugging the CoreFoundation framework.

*Embedded Systems Engineering Intern*

[May 2016 - August 2016]

### **Facebook/Oculus**

I lead a project designing prototype hardware and firmware for an upcoming product showcasing novel tracking technology for Oculus' virtual reality headsets.

*Founder and Lead Engineer*

[November 2013 - present]

### **Flipper**

I design embedded hardware, lead development on our embedded operating system, and work on our suite of user facing development tools.

## PUBLICATIONS

- *A Multi-Architectural Approach to the Development of Embedded Hardware*. Tech. Washington, D.C: Society for Science, 2014. Web.
- *Operating System Design and Development Continued*. Tech. Washington, D.C: Society for Science, 2013. Web.
- *Reflective, Object Oriented Operating System Kernel Design and Development for the ARM Architecture*. Tech. Washington, D.C: Society for Science, 2012. Web.

## AWARDS

- IEEE President's Scholarship
- Three time Intel International Science and Engineering Fair finalist.
- Three time Intel Excellence in Computer Science Award winner.
- Three time California State Science Fair award winner.