Cell: (608) 381-1145 | **Email:** vkottler@wisc.edu | **Website:** vaughnsplayground.me | **GitHub:** www.github.com/vkottler

Vaughn Kottler

Embedded Systems Engineering & Mechatronics, Full Stack Web Development & IoT

Education:

UW-Madison (Dean's List 5/6 Semesters, Summer 2016) *GPA: 3.49*

Majors: Computer Engineering (Degree Program), Computer Science

Graduating: **May 2019** (3 semesters remaining)

Work:

SpaceX (Software Engineering Intern) *Current*

- LabVIEW automation & continuous integration distributed as a Python package

Extreme Engineering Solutions (Associate Embedded Engineer) *Spring - Fall 2017*

- Bootloader development for non-Intel architecture systems (U-Boot)

State Farm (Software Development Intern) *Summer 2016*

- Web app. with Spring Framework + Maven & Angluar.js 1.X, first TDD

UW-Madison College of Engineering (ULC Campus Tutor) *Fall 2016 - Present*

- Intro. programming, circuits, & digital logic courses

UW Plasma Physics (Student Hourly, Computing) *Spring 2015 - Spring 2016*

- My introduction to web development, system administration, PHP and MySQL

Skills (CE):

Schematic Design & PCB Layout, Processor Driver/Firmware Development, Verilog:

- ARM/MIPS/AVR/PPC development in assembly and C with pre-compilation configurations
- Experience setting up make-based build systems & can acclimate to large codebases
- Altium & Eagle schematic and PCB layout experience, some Spice simulation exp.

Hardware Communication Protocols: *U[S]ART, I2C, CAN, SPI, USB, Ethernet, PCIe*

- Non-blocking I/O & RTOS, CANopen & custom application layer protocol experience

Hardware-Level Software Debugging: *Logic Analyzers, Oscilloscopes, Multimeters*

- Proficient with debugging tools, aware of when to use (and how to not break them!)

Math & Signal Processing: *Kalman filtering & quarternions (gyro. + accel. work)*

Skills (CS):

Sample Content: *More Content*

- TODO

Sample Again: *Content*

- TODO

Leadership:

Sample Content: *More Content*

- TODO

Sample Again: *Content*

- TODO

Involvement:

Sample Content: *More Content*

- TODO

Sample Again: *Content*

- TODO

Awards:

- TODO