

user@desktop:~\$ **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 & Angular.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

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**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 & quaternions (gyro. + accel. work)*

**Skills (CS):** **Sample Content:** *More Content*

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**Sample Again:** *Content*

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**Leadership:** **Sample Content:** *More Content*

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**Involvement:** **Sample Content:** *More Content*

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**Sample Again:** *Content*

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**Awards:**

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