

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

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*

- TODO

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

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Sample Again: *Content*

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

- TODO

Sample Again: *Content*

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Awards:

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