

# Colin Wallace | Software Engineer

Seattle, WA

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## Education

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### University of Washington

Seattle, WA

- › BS EE with concentration in VLSI
- › 3.9 GPA; magna cum laude

03/2017

## Skills

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**Languages** C, C++, Java, Python, Rust; some ARM and PIC assembly, D, Javascript

**Dev Tools** Git, Bash, Make, Matlab, Mathematica, Subversion, Unix CLI tools

**Maths** Linear algebra, Numerical analysis, Multivariable calculus

**Other** Spice, Verilog, Cadence, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X

## Experience

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### Fluke Networks – Software Engineer

Everett, WA

- › Algorithm & software design to detect and classify Power over Ethernet devices attached to a cable.
- › Characterize distortion of hardware signal paths and use this to implement algorithms that recover undistorted signals.
- › Design factory calibration routine to measure device-specific variations and use this to tune the signal recovery algorithm per-device.

05/2017 - present

### Fluke Networks – Software Engineer (intern)

Everett, WA

- › Algorithm design & implementation for faster calculation of attenuation/dispersion-compensated TDR traces in lossy cables.
- › Firmware design for an always-on MCU that handles power management in an embedded cable tester.

Summer 2015/2016

### University of Washington – Undergraduate Research

Seattle, WA

- › Sidechannel-resistant AES encryption/decryption using composite fields.

03/2016 - 06/2016

## Related Activities/Projects

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**Contributor** Rust; a systems programming language led by Mozilla

09/2015 - present

**Maintainer** LMMS; open source, cross-platform digital audio workstation

06/2015 - present

**Officer** Washington Open Objects Fabricators, UW; 3D printing club

01/2014 - 06/2015

**Participant** Oculus' Mobile VR Jam; virtual-reality gamedev challenge

05/2015

**Author** Printipi; PCB & firmware for a Raspberry Pi driven 3D printer

06/2014 - 05/2015

## References

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**Visvesh Sathe** Assistant Professor, Ph.D EE; University of Washington. sathe@uw.edu

**Bill Gessaman** Principal Engineer; Fluke Networks. bill.gessaman@flukenetworks.com