Colin Wallace | Software Engineer

Seattle, WA

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Education

University of Washington **Seattle, WA**

- BS EE with concentration in VLSI *03/2017*
- 3.9 GPA; magna cum laude

Skills

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, LaTeX

Experience

Fluke Networks – *Software Engineer* **Everett, WA**

- Algorithm & software design to detect and classify Power over Ethernet devices attached to a cable. *05/2017 - present*
- 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.

Fluke Networks – *Software Engineer (intern)* **Everett, WA**

- Algorithm design & implementation for faster calculation of attenuation/dispersion-compensated TDR traces in lossy cables. *Summer 2015/2016*
- Firmware design for an always-on MCU that handles power management in an embedded cable tester.

University of Washington – *Undergraduate Research* **Seattle, WA**

- Sidechannel-resistant AES encryption/decryption using composite fields. *03/2016 - 06/2016*

Related Activities/Projects

Contributor	Rust; a systems programming language led by Mozilla	*09/2015 - 05/2017*
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

Visvesh Sathe	Assistant Professor, Ph.D EE; University of Washington. sathe@uw.edu
Bill Gessaman	Principal Engineer; Fluke Networks. bill.gessaman@flukenetworks.com