

Christopher Fuller
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Summary

I bring strong problem solving skills honed during the study of physics at university and my experience in research oriented work environments to the projects I work on. I thrive in the process of discovering how things work (or don't). I'm comfortable in the low-level details and have much experience using C APIs to higher level languages to promote interoperability or achieve novel objectives.

I'm very familiar with microcontroller development, both PIC and AVR architectures, and have done considerable circuit design and PCB layout work in that context.

I focus on open source technologies, but have used proprietary platforms quite successfully, including Visual C/C++, MATLAB, and LabVIEW.

Work Experience

1997 - present

Equilibrium and Balance Laboratory, Department of Otolaryngology, University of Minnesota

- Writing and maintaining software interfaces to various lab equipment, including National Instruments data acquisition systems and Polhemus motion tracking systems.
- Writing and maintaining software for data handling and visualization (2D and 3D)
- Development of hardware, firmware and host computer software for medical devices.

2005 - 2009
Esco R&D, Inc

- Development of hardware, firmware and host computer software for medical devices.
- Complied with requirements document.
- Participated in revisions to requirements document

1999 - 2002
Hemoxy, LLC

- Development of firmware and host computer software for medical devices.

Education

- University of Minnesota, Twin Cities
Coursework towards a BS in Physics, with a minor in Computer Science (completed)

Publications

- O'Dea T; Menchaca H; Shudy J; Rohde T; Michalek V; Fuller C; Buchwald H.
"A novel device for measuring the effect of cholesterol on the release of oxygen from red blood cells into myocardial tissue."
Biomedical Instrumentation & Technology. 34(4):283-92, 2000 Jul-Aug.
[Comparative Study. Journal Article. Research Support, Non-U.S. Gov't]
UI: 11004999

Continuing Education

- *Circuits and Electronics*. Completed December 2014 through EdX. Taught by Anant Agarwal, MIT. [verified certificate](#)
- *HTML5 Coding Essentials and Best Practices*. Completed December 2015 through EdX. Taught by Michael Buffa, University Côte d'Azur. [verified certificate](#)

Additional Skills

- Python, JavaScript, Scala, SWIG
- Unix/Linux/BSD, Internet Protocols, Git
- X(HTML), XML/XSLT, Relational Databases
- Inkscape, Graphviz, SVG
- GTK/Glade, VisualPython, Matplotlib
- Serial Communications
- Eagle, SPICE

References

Professor John H. Anderson, MD, PhD
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