

Paul J Nixon

Summary

Senior Software Engineer with Masters degree and 10 years of C/C++ experience, seeking an individual contributor or team lead role in the medical device field or other regulated software environment.

Contact

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🏠 Watertown, MA, USA

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Education

🎓 M.S. Computer Science
Tufts University, 2014

🎓 B.S. Computer Engineering
SUNY at Buffalo, 2012

Experience

Veo Robotics 2020 - Now

Senior Software Engineer II

Languages: C++20, MISRA C

Frameworks: OpenEmbedded Linux, Sciopta RTOS

Teams: Core Vision Algorithms Team, Safety Embedded Software Team

Product: ISO 13849 certified safety system for human-robot interaction

- Develop safe, high-performance code and unit tests
- Review and approve colleagues' code on GitHub code reviews
- Implement spatial algorithms and communication standards

Carlson Software 2014 - 2020

Software Engineer

Languages: C++11

Frameworks: Win32, wxWidgets, MFC, AutoARX, GDAL

Product: Point Cloud processing as a CAD plugin

- Architected and led implementation of new features
- Worked with support team to troubleshoot bugs and deploy fixes
- Mentored new employees and student interns

Tufts University Department of Computer Science 2014

Teaching Assistant, Computer Graphics

Language: C++

Framework: OpenGL

- Assisted students in debugging C++ code and graphics algorithms

Tufts Univ. Research and Geospatial Technical Services 2012 - 2014

Academic Technology Fellow

Languages: PHP, HTML, SQL, Javascript

Frameworks: CodeIgniter, JQuery

Product: Internal-use webform

- Overhauled webform from ColdFusion to PHP
- Migrated database from MDB to SQLite

ATTO Technology 2012

Engineering Co-Op

Team: Embedded Software Group

Languages: Python, Bash, C

Framework: Python Paste

- Set up webservice installation for viewing Bazaar source control repo
- Made changes to open-source software and contributed back upstream