

# Ash Afshar

📍 Victoria, BC    ✉ ash.afshar@outlook.com    ☎ (604) 781-9497    in yourusername    🌐 yourusername

## Summary

I bring skills in inspection procedures, mechanical and electrical troubleshooting, and preventative maintenance, combined with a strong background in quality assurance and compliance with industry standards such as ISO 9001 and OSHA. My experience includes using CAD software, Python, data analysis and Office to develop solutions, analyze data, and enhance equipment reliability. I excel in technical documentation, root cause analysis, and collaborating with cross-functional teams to ensure successful project completion. I believe I can be a strong fit for the Inspector Engineer role at Cantos.

## Skills

- **Technical Skills:** Mechanical and Electrical Troubleshooting, Equipment Maintenance, Inspection Procedures, NDT, Test Equipment, Preventative Maintenance, QA/QC, QMS, Engineering Drawing Packages, Data Analysis, Condition Monitoring, Root Cause Analysis
- **Software:** CAD (SolidWorks, AutoCAD), Python, Microsoft Office Suite (Word, Excel, Outlook)
- **Compliance & Standards:** ISO 9001 Quality Standards, Familiarity with OSHA, HSE Management
- **Operational Skills:** Project Management, Field Service Operations, Work Planning and Scheduling, Technical Documentation, Inventory Management
- **Soft Skills:** Team Collaboration, Stakeholder Communication, Adaptability, Creative Thinking, Problem Solving, Attention to Detail, Independent Work, Time Management

## Education

- BS**    **University of Pennsylvania**, Computer Science    Sept 2000 – May 2005
- GPA: 3.9/4.0 ([a link to somewhere](#) 📄)
  - **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

## Experience

- Apple**, Software Engineer    Cupertino, CA  
June 2005 – Aug 2007
- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
  - Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
  - Redesigned chat file format and implemented backward compatibility for search
- Microsoft**, Software Engineer Intern    Redmond, WA  
June 2003 – Aug 2003
- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
  - Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
  - Built an app to compute the similarity of all methods in a codebase, reducing the time from  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
  - Created a test case generation tool that creates random XML docs from XML Schema
  - Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

## Publications

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### 3D Finite Element Analysis of No-Insulation Coils

Jan 2004

Frodo Baggins, **John Doe**, Samwise Gamgee

10.1109/TASC.2023.3340648 [🔗](#)

## Projects

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### Multi-User Drawing Tool

[github.com/name/repo](#) [🔗](#)

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

### Synchronized Desktop Calendar

[github.com/name/repo](#) [🔗](#)

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

### Custom Operating System

2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Technologies

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**Languages:** C++, C, Java, Objective-C, C#, SQL, JavaScript

**Technologies:** .NET, Microsoft SQL Server, XCode, Interface Builder