

# Douglas Ronne

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## INTRODUCTION

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I am collaborative, driven by the success of my team, take responsibility, have an adaptive and flexible approach to problem solving, and am now seeking a new challenge to apply my technical and leadership skills. In addition to being very technically capable I am a skilled communicator and easy to get along with. I am driven to solve problems for the people around me whether my colleagues or customers. I am a citizen of the U.S.A. and Canada.

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## SKILLS

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- ◇ **Languages:** Assembly, Visual Basic, C/C++/C#, Groovy, Java, Kotlin, LaTeX, Matlab, Python, Rust, Scala
- ◇ **Programming:** Agile Methods, Test Driven Development, Behavior Driven Development, Automated Testing, Refactoring, Design Patterns, Legacy Code Techniques, GitHub, GitLab, Continuous Integration, Continuous Delivery, Jenkins, gitlab-ci, CodeScene, Threading, Microservices, IntelliJ, Netbeans, Emacs, Linux, Windows, VMWare, 3D Modeling, Data Analysis, System Analysis, Risk Assessment, Debugging, GDB, Linkers, Makefiles, Code Review, Scripting, Bash, Distributed Systems, DevOps, Customer Feedback
- ◇ **Management:** Mentoring, Conflict Resolution, Estimation, Training, Critical Path Analysis, Problem Solving, Scrum, Kanban, Project Management, Failure Analysis, Hiring, Performance Reviews

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## EXPERIENCE

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### R&D Manager - Protocase Inc, Sydney, NS, CANADA

*September 2009 - January 2024*

- ◇ As the sole developer I created from scratch our flagship sheet metal enclosure CAD software on schedule. This software brings in about \$5mil in revenue and about 20% of new customers.
- ◇ I grew the software team from 1 person to 10 people allowing us to expand our reach and not just maintain/ grow our CAD software but also create custom ERP software and much more.
- ◇ I took over the mechanical and industrial engineering teams and expanded the team from myself as the sole contributor to a high-performing team of about 25 professionals.
- ◇ Created custom formula parser language for dynamic parsing of variables and sub formulas in template CAD models.
- ◇ Visited customers to help them use our tools and better understand what they needed from us.
- ◇ Developed internal Automated Work Instructions on top of CAD to go from customer design to shop build sheets reducing rework by as much as 30% at some processes.
- ◇ Actively contributed to executive management, providing strategic direction and problem solving, helping to grow the company from 40 people and \$1mil in revenue to 400 people and over \$50mil in revenue.
- ◇ Created vision software to optimize print bed part location. Reduced rework rate by 50% and doubled productivity.

### Head of Software - Power Control Engineering, Grants Pass, OR

*May 2005 - May 2009*

- ◇ As the sole developer I created embedded software for a Separately Excited Motor Controller for high-powered golf carts.
- ◇ Created a custom build and debug system in Python that shortened deploy time by about 50%.
- ◇ Discovered and reported a bug in the Texas Instruments C Compiler involving large switch statements.

### **Senior Multidisciplined Engineer 3 - Raytheon**, El Segundo, CA

*August 2001 - May 2005*

- ◇ Designed algorithms for anti-jam GPS and radar systems, as well as conducted lab testing.
- ◇ Delivered 3 projects on time and under budget as the team lead of programmers and analyst.
- ◇ Utilized Matlab, C, C++, Ada, VHDL, and microcode on FPGAs for large matrix inversion.
- ◇ Demonstrated solutions and updates live to customers.

### **Math Teacher - Western Washington University**, Bellingham, WA

*August 1997 - June 2001*

- ◇ Taught algebra, precalculus, and business calculus classes.
- ◇ Operated a math tutoring lab and tutored everything from algebra to multivariate calculus.

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## **MOST INFLUENTIAL BOOKS IN MY BOOKSHELF**

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“Test Driven Development”, “Growing Object Oriented Software, Guided By Tests”, “Refactoring”, “Refactoring to Patterns”, “Working Effectively with Legacy Code”, “Your Code as a Crime Scene”, “Tidy First”, “Clean Code”, “Crucial Conversations”, “Getting Things Done - The Art of Stress-free Productivity”, “Extreme Ownership”

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## **EDUCATION**

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### **Western Washington University**, Bellingham, WA

*2001*

*Mathematics, MS - 4.0 GPA*

Courses in numerical computing, windows programming, theoretical and applied math.

### **Western Washington University**, Bellingham, WA

*1999*

*Mathematics, BS - 3.96 GPA*

Courses in numerical computing, data structures, assembly language.

### **South Puget Sound Community College**, Olympia, WA

*1996*

*General Studies, Associate of Arts - 3.92 GPA*

Courses in math, computer science, english, physical and social sciences.

### **South Puget Sound Community College**, Olympia, WA

*June 1993*

*Electronics, Associate of Technical Arts - 3.88 GPA*

Courses in theory and practical electronics, machine language, assembly programming, and troubleshooting.

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## **PROFESSIONAL DEVELOPMENT**

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### **Front end web development in Rust**, Udemy

*2024*

### **RustConf 2024**

*2024*

### **Build a RC5 Symmetric Block Cipher in Rust**, Udemy

*2024*

### **Ultimate Rust Crash Course**, Udemy

*2024*

### **Ultimate Rust 2: Intermediate Concepts** Udemy,

*2024*

### **Learn Rust by Building Real Applications** Udemy,

*2024*

### **The World's Best Intro to TDD**, jbrains.ca

*2024*

### **Level 1 Fire Training**, Nova Scotia Fire School

*2020*

### **Protocase Conflict Management**, Protocase

*2018*

### **SolidWorks API Training**, SolidWorks

*2014*

### **Power Control Engineering Workshop**, University of Wisconsin

*2007*

### **Raytheon Six Sigma**, Raytheon

*2003*

### **Raytheon Systems Engineering**, Raytheon

*2004*

### **Multirate Signal Processing**, fred harris

*2002*

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## VOLUNTEERING

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**Lieutenant, Baddeck Volunteer Fire Department**, Baddeck, NS, CANADA

*September 2012 - June 2022*

I started as a rank and file firefighter and became the lieutenant on our rescue truck and the Treasurer. Also took level 1 firefighter training.

**Generalist, Pan Cape Breton Food Hub**, Baddeck, NS, CANADA

*September 2014 - June 2022*

I helped the executive director design processes and assisted with general operations, maintenance, and labor.

**Volunteer and Board Chair, Baddeck Farmers Market**, Baddeck, NS, CANADA

*March 2009 - June 2014*

I helped the executive director design processes and assisted with general operations, maintenance, and labor. I was the board chair for 2 years.

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## INTERESTS

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- Sailing
- Cooking
- Hiking
- Programming
- Travelling
- Reading
- Programming for fun
- Embedded software
- Experimenting with productivity tools