

Douglas Ronne

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INTRODUCTION

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.

SKILLS

- ◇ **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

EXPERIENCE

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

September 2009 - January 2024

- ◇ Helped grow the company from 40 people and \$1mil in revenue to 400 people and over \$50mil in revenue
- ◇ Expanded the R&D team from myself as the sole contributor to a high-performing team of 40 professionals.
- ◇ Developed flagship CAD software for sheet metal enclosures, improving and maintaining it over time. This software eventually brought in about \$5mil in revenue and about 20% of our new customers
- ◇ 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.
- ◇ Built and managed the software team to enhance engineering and production, creating automated design software.
- ◇ Expanded the R&D team to address industrial and mechanical engineering challenges.
- ◇ Actively contributed to executive management, providing strategic direction and problem solving.
- ◇ While working remotely, created vision software to optimize print bed part location. Reduced rework rate by 50% and improved productivity by 100%.

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

May 2005 - May 2009

- ◇ Developed embedded software for a Separately Excited Motor Controller for high-powered golf carts.
- ◇ Created a build and debug system in Python.
- ◇ Discovered and reported a bug in the Texas Instruments C Compiler involving large switch statements.
- ◇ Developed embedded software for an AC Induction motor prototype while working remotely.

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.
- ◇ Utilized Matlab, C, C++, Ada, VHDL, and microcode on FPGAs for large matrix inversion.
- ◇ Led a small team of programmers and analysts.
- ◇ Presented solutions 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.

MOST INFLUENTIAL BOOKS IN MY BOOKSHELF

“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”

EDUCATION

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.

PROFESSIONAL DEVELOPMENT

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

VOLUNTEERING

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.