RYAN HOVESKELAND

TECHNOLOGY PROFESSIONAL

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SUMMARY

Tech professional with a passion for creating and optimizing tech-based solutions to problems no matter the context. With varied experience from a range of fields, I've developed a keen sense for understanding systems and decomposing requirements in order to implement efficient solutions to any problem I'm presented with. Tech is both my profession and my hobby, and I'm constantly learning and improving.

TECHNICAL SKILLS

DSA	Polarion ALM	JUnit Testing	Microsoft Office
Office Automation	Python, C#, C++, Java, VBA	GUI Programming	Windows
UML / SysML	Git, SVN	Requirement Decomposition	Linux / Unix-Based OS's

PROFESSIONAL EXPERIENCE

Staff Quality Tech, Collins Aerospace **Jamestown, ND** **Nov 2024 - Present**

- Automated reporting of QMS metrics using Python, C# and VBA
- Developed QMS data visualization for audits using Python, C#, VBA, Sqlite, C++, and Go
- Developed, and created thorough documentation for, 5+ software tools used at least weekly
- Led a team of engineers to overhaul our QMS using Polarion ALM in a CORE event

Assembly Inspector I, Collins Aerospace **Jamestown, ND** **Feb 2024 - Nov 2024**

- Developed a tool to extract QN data from SAP with a GUI using Python
- Used a VL-700 scanner to assist Precision Inspection and developed process optimization tools using PowerShell to reduce process time from ~1 hour to 12 minutes/part, applied to >1200 parts

Assembler/Installer, Boeing **Everett, WA** **July 2023 - Feb 2024**

- Followed documentation and specifications to prepare and perform final assembly on 777F aircraft

English for Science, Math and Tech Instructor **Khon Kaen, Thailand** **Oct 2018 - May 2023**

- Created a web based GUI and SQLite database for maintaining and recording student grades
- Automatically performed grading, testing, and homework using Google office suite and Python

Manager Trainee, Great Floors **Apr 2018 - Oct. 2018**

EDUCATION

B.S. in Computer Science, Software Engineering **2024 - 2026** **GPA: 4.0**

Southern New Hampshire University

- Coursework includes Java, C++ and Python; DSA, Software Quality, System Analysis & Design

B.A. in Chinese Language & East Asian Studies **2014 - 2018** **GPA: 3.68**

Western Washington University

- Double major in Chinese Language and East Asian Studies; Minor in Business Administration

ADDITIONAL INFORMATION

- **Languages:** English, Thai, Mandarin.
- **Certifications:** Data Analytics Professional Certificate (Google via Coursera, 2022), CS50x (Harvardx via EdX, 2023), boot.dev Mage level (2025), AI/ML Practitioner (CATU, 2025)
- **Activities:** Collins Systems QMS Alignment CORE Event (July, 2025)

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PROJECTS

Document Data Visualization (April 2025)

Languages: Python, C++, Go, C#; SQL

Purpose: Assist the QMS Audit process and help document owners perform periodic reviews

This project organizes a series of 1:1 document relationship pairs (parent-child relationship) read in from a file into a set of Document objects organized in a tree, which can be queried and output to a text file or in a GUI. The reason this project used so many different languages is that I implemented it several times to find the language that provides the most functionality with the best performance. The best performance/feature balance ended up being in C#, which allowed me to use MS Forms to present the data in an accessible GUI using VisualStudio.

Daily Chapter (March 2025)

Languages: Python; SQL; HTML

Purpose: Help people stay in the habit of reading literature

This project imports public domain epub files into a SQLite database and uses the Google API to email a chapter of the books each day to users. The database also stores user information, including which book they're reading and which chapter they're on. I created this project because I wanted to get more comfortable working with Web APIs and unusual file formats like epub. This also introduced me to XML parsing and sending well-formatted HTML by email; a skill that I continue to use constantly in my work.

CMM to Net-Inspect (Nov 2024 - Present)

Languages: Python

Purpose: Streamline the FAI process by massaging CMM data into Net-Inspect's desired format

This project was the result of a CORE event in late 2024, but has been improved and extended as recently as August 2025. It reads in a CSV of CMM data, extracts the FAI bubble number, and places it in a new column for Net-Inspect to read. It also extends every measurement number to four decimal places and does various other small data validation and cleaning operations. This program is used >10 times each week and is a crucial part of the FAI process now, saving at least 3 hours per FAI.

QMS Health Report (May 2025)

Languages: Python; Excel/VBA; HTML

Purpose: Inform leadership of crucial QMS-related metrics

This project uses the Pandas Python library to read in data from our QMS Compliance Matrix Excel workbook and format it into an HTML report that's sent to Quality leadership each week. It includes information on overdue document reviews and corrective actions as well as recent requests for modifications to certain process documents. This takes advantage of the COM interface for Excel and Outlook.

QN Lookup (March - June 2024)

Languages: Python; VBA

Purpose: Extract Quality Notification data from SAP for inspector training and template creation

This program automatically searches for QNs of an input material number and lists them for users in a custom GUI made using TKinter. In the GUI, users can scroll through the list and select the QN number they would like to download; when the user presses the download button, the program extracts the data from SAP, formats it as the QN writer would before entering it, and saves it as a txt file in the user's directory. It could also be used by management to view QN metrics, like how many QNs were written by certain team members and how many QNs were written for a given material number.

Thai Grading Portal (March 2023)

Languages: Python; SQLite; HTML; Javascript

Purpose: Collect and present grades for classes in the Thai high school system

This project created and leveraged a pipeline of grades and course material from the Google office suite to a local database using the Google API, and then provided an interface for viewing and outputting the data via a Flask web app. Teachers could view trends in classes by grade and homework submission rates in the web app, and the database could also output to the school's government-mandated gradebook format for printing, saving teachers days of administrative work per term.