

ADAM NELSON

💡 Engineering & Product Development | 📍 Montreal, QC

CONTACT

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adam@adamcnelson.com ✉️

English · Français (Working) 🗣️

EDUCATION

Master of Science Engineering Management

University of Wisconsin - Platteville
2013

Bachelor of Science Electrical Engineering

University of Wisconsin - Platteville
2008

CERTIFICATIONS

Scrum@Scale Practitioner | 2018

Scrum Master | 2016

Scrum Product Owner | 2016

LabVIEW Architect | 2009

SKILLS & TECHNOLOGIES

Project Management

MS Projects · Primavera · Redmine · Jira ·

YouTrack · Agile (Scrum / Kanban)

Development

Python · C# · Docker · React · Pandas ·

Robot · Selenium · JavaScript · CSS ·

HTML · LabVIEW

VOLUNTEER EXPERIENCE

Head Hockey Coach

University of Wisconsin - Platteville
2008 – 2017

Mid-American Collegiate Hockey
Association Champions | 2013 & 2014

MACHA All-Star Team Coach | 2014

PROFESSIONAL SUMMARY

Accomplished leader capable of delivering large-scale development projects on time and on budget by effectively collaborating, facilitating, leading, and coaching teams.

Excellent track record of maintaining and growing customer relationships by aligning product specifications to customer value stream, consistent and frequent feedback loops through product storyboarding and demonstrations, and knowledgeable integration with the internal product engineering and program management teams.

EXPERIENCE

Product Engineering Manager

CMC Electronics (Formerly Esterline), Montreal, QC | 2018 – Present

- Developed business and strategic plans for the Aircraft Information System (AIS) product line which included revenues, margin targets, pricing, costs, and other KPIs to ensure a healthy EBITDA and CAGR.
- Collaborated with the engineering teams (and Scrum Master) to develop, refine, and prioritize user stories on multiple products.
- Managed annual budget of \$4m for New Product Introduction and Sustaining activities.
- Developed and deployed a web-based tool leveraging an existing SQL backend to predict and manage resource needs. This tool reduced the maintenance and eliminated use of Excel spreadsheets required to manage resources.
- Grew a cross-functional team of 4 to 16 engineers in 6 months with a mix of full-time and flexible staff to ensure customer milestones were achieved.
- Generated and delivered ~\$100m proposals for a major commercial airline and military aircraft manufacturers with on-site demonstrations.
- Embedded team in various standards committees focused on future of product line.

Project Engineer

CMC Electronics (Formerly Esterline), Montreal, QC | 2017 – 2018

- Lead a team of 18 Systems, Software, and Hardware engineers on a major Aircraft Information System program.
- Developed and qualified new hardware for a Research and Development project focused on enhancing avionics communication in all phases of flight.
- Managed 3 hardware and software suppliers through the process to achieve a Supplemental Type Certificate on the Boeing 767. This included intricate cabling, modifications to the aircraft, an external antenna, 4G / LTE modem, Wi-Fi access points, and accompanying software.


Engineering Manager


AVISTA Inc. (Formerly Esterline), Platteville, WI | 2014 – 2017

- Esterline Senior Leaders of Tomorrow – Designed and implemented an enhanced customer experience program globally within all Esterline business units.
- Established Learning Center to allow educational opportunities outside daily engineering tasks.
- Developed and deployed a company-wide performance discussion and career development process.
- Implemented Scrum for military transport aircraft project.
- Led a small team which designed and fabricated \$500k test station for Data Concentrator Units used in military and civilian helicopters within budget and schedule.
- Led team to develop and test Electrical Power Generation and Distribution System models for the Global 7000/8000 aircraft.

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EXPERIENCE (CONTINUED)

Senior Software Engineer

AVISTA Inc. (Formerly Esterline), Platteville, WI | 2012-2014

- Managed a diverse team of Software Engineers to develop requirements, write and release test software, submit qualification documents, and test cockpit control panels for business jets.
- Created project plans to ensure on-time delivery of test software to meet strict customer deadlines.
- Provided excellent customer relations throughout a high-pressure project to achieve total customer satisfaction.
- Maintained product delivery and performance standards while effectively managing budgets upwards of \$500k.

Lead Engineer

AVISTA Inc. (Formerly Esterline), Platteville, WI | 2011-2012

- Led multiple projects for power electronics cooling systems, data concentrator units, and control panel assemblies for commercial and military aircraft.
- Established a Test Engineering Group which executed project ranging from 2-5 engineers.
- Successfully created and deployed new process and logistics plan for the Test Engineering Group.

Software Engineer I

AVISTA Inc. (Formerly Esterline), Platteville, WI | 2008-2011

- Designed and implemented custom circuit boards to convert a manual test setup to fully-automated which reduced testing time from 15 minutes to 30 seconds per test; over 100 tests were dispatched daily on average.
- Wrote an automated testing suite in LabVIEW which reduced manual testing time by 90%.
- Implemented a queuing / batching program system in LabVIEW to enable remote testing which eliminated the need for multiple test stations.
- Established an internal LabVIEW training and mentoring plan that fully developed and effectively engaged employees' knowledge and skills. This program elevated the knowledge of the team and helped two additional employees become LabVIEW certified.
- Wrote, debugged, and reviewed requirement-based tests for next-generation passenger aircraft