

**OBJECTIVE** I'm an enthusiastic and hardworking engineer looking to develop my technical and leadership skills on a team solving a meaningful problem.

**EXPERIENCE** **Engineering Manager, Project Lead (Non-profit org)** 2017  
*Challenge:* Enable patient health management via educational programs for under-served communities.

*Role:* Manage an engineering team responsible for software development and data quality across the organization. Project lead for an internal engineering team - scrum master, roadmap planning, coaching. Responsible for hiring, onboarding experience.

*Past Roles:* Built automated tests in Ruby, JavaScript and developed manual processes to ensure patient engagement and platform quality.

**Quality Assurance Lead** 2014  
*Challenge:* Provide retailers with top quality price intelligence data and insights to enable million dollar competitive strategies to maximize revenue.

*Role:* Grew a quality assurance team from one person to 8 people, developing the business processes and software infrastructure to ensure data and software quality. Gained experience with several technologies including Python, Selenium, AWS, MongoDB, Redshift SQL, Jenkins and Tableau. Handled recruitment, management and training onshore and offshore.

**Nanotechnology Engineer** 2012  
*Challenge:* Design and prototype a biological carrier for an anti-cancer drug to increase drug effectiveness. Visit [uwnano.aareet.com](http://uwnano.aareet.com) for details.

*Role:* Simulated drug and delivery system structure and function using pyMol, MATLAB (Octave) and Python. Inventor in pending patent for drug carrier developed with design team.

**A/V Systems Engineer** 2011  
*Challenge:* Automate HDMI video quality analysis to test analog to digital converters.

*Role:* Developed statistical image processor for HDMI video analysis using C (Visual Studio) by building an interface between video capture devices and spectrum and protocol analyzers. Gained experience with Xilinx IDE.

**Quality Assurance Engineer** 2010  
*Challenge:* Automate scalability and reliability testing of a RAID 4 based networked media server/player system.

*Role:* Designed and built test automation framework for scalability testing using python, PostgreSQL, CentOS. Conducted scalability tests that established the company's support standard. Tested players for Blu-ray certification.

**Software Automation Engineer** 2009  
*Challenge:* Automate testing of high-performance network security appliances.

*Role:* Wrote perl scripts to perform network analysis and stress testing and used Wireshark, Ethereal and nmap for packet and network inspection.

**EDUCATION** BAsc. Honours Nanotechnology Engineering, Co-op, Distinction