

# ADESH SANGIONE, EIT

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## RELEVANT EXPERIENCE

### MDA Ltd, Montreal, Canada

December 2020 – August 2021

#### *Mechanical Design Intern, Satellite and Antenna Systems*

- Spearheaded the design for 25% of a satellite project by creating an antenna assembly with 100+ parts
- Modelled 40+ components for an RF assembly from conceptualization to the validation phase while communicating the design intent to 5+ teams and releasing drawings for manufacturing
- Established a novel CAD structure for an original design that lowers update requirements by 25% across mechanical and RF teams by using expressions to control the CAD model
- Developed components for 3 ground test models that complied with 5+ verification tests such as vibration and thermal cycling

### Autonomous Robotic Vehicle Project, Edmonton, Canada

September 2018 – September 2020

#### *Mechanical Team Lead*

- Designed 60% of an Autonomous Underwater Vehicle while coordinating a team of 15+ members
- Managed 6 projects that included redesigning infrastructure valued at 40% of the project budget
- Drafted and reviewed 80+ drawings for manufacture to fabricate 3 major assemblies valued at \$8k+
- Organized mechanical component procurement with 10+ vendors to purchase 150+ parts successfully during COVID-19 shutdowns
- Chaired 3 weekly design meetings for 15+ members and measured key performance indicators to ensure the project met specifications

### Imperial Oil Limited, Calgary, Canada

September – December 2019

#### *Upstream Kearn Calgary Facilities Engineering Intern*

- Formulated 5 production enhancement tests that justified a \$20M+ per year business case and presented test findings to executive-level management
- Identified redundancies in a maintenance plan and reorganized the plan to realize annual savings of 25%
- Audited 600+ engineering drawings, presented outcomes to management, and implemented solutions

### Chemtrade Logistics, Edmonton, Canada

May – December 2018

#### *Project Engineering Intern*

- Directed 7 successful projects with a combined value of \$300k across 3 company locations
- Analyzed, proposed, and evaluated 2 CI opportunities that amounted to \$50k+ savings per year
- Instituted new equipment naming conventions and maintenance procedures for 500+ equipment
- Executed a chemical heating project that decreased transportation costs by \$30k per month

## EDUCATION

### University of Toronto, Canada

September 2020 – April 2022

#### *Master of Engineering in Mechanical Engineering, GPA: 4.0/4.0*

- Emphasis on robotics and aerospace design

### University of Alberta, Canada

September 2015 – April 2020

#### *Bachelor of Science in Mechanical Engineering, GPA: 3.9/4.0*

## SKILLS AND ADDITIONAL INFORMATION

**Relevant Skills:** Microsoft Office, Python, MATLAB, HTML5, CSS, SAP, Keras, PyTorch, Scikit-learn, SolidWorks (CAD, PDM, and Visualize), Siemens NX (CAD and Teamcenter), Design of Experiments, Rapid Prototyping, GD&T

#### **Other Projects:**

- Programmed and designed a project portfolio website using HTML5 and CSS frameworks
- Devised 2 Arduino-based projects that incorporated Bluetooth, app development, and sensor networks to create a user-friendly LED cube and actuator control panel
- Coordinated the systems and mechanical design of a DIY mirror with touch and smart-home capabilities

**Certifications:** Alberta Class 5 Driver's License, Engineer in Training: APEGA