ADESH SANGIONE

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EDUCATION

University of Toronto, Toronto, ON September 2020 – April 2022
Master of Engineering in Mechanical and Industrial Engineering

- Technical emphasis: Robotics

University of Alberta, Edmonton, AB September 2015 – April 2020
Bachelor of Science in Mechanical Engineering with Distinction

- Cooperative Education Program

ENGINEERING EXPERIENCE

Autonomous Robotic Vehicle Project, Edmonton, AB September 2018 – September 2020
Mechanical Team Lead

- Delegated design tasks to a team of 15 members for designing a new Autonomous Underwater Vehicle (AUV) for the 2020 RoboSub competition
- Designed and modeled 60% of the team's AUV through multiple design cycles
- Managed 6+ large-scale projects that included redesigning existing infrastructure valued at $8k
- Created and finalized over 80 fabrication drawings which have been utilized to successfully fabricate 2 major assemblies with a combined value of $3.5k
- Executed and presented several seminars that were aimed to increase general members' professional skills and received positive feedback

Imperial Oil Limited, Calgary, AB September – December 2019
Upstream Kearl Calgary Facilities Engineering Intern

- Analyzed production enhancement test results using various statistical techniques to justify $2M per year business case
- Formulated testing procedures to increase bitumen recovery during extraction operations with estimated savings of $20M+
- Proposed a new regulatory preventative maintenance plan to key stakeholders with annual savings of $25k
- Audited over 600 controlled documents and communicated key takeaways to management while implementing solutions

Chemtrade Logistics, Edmonton, AB May – December 2018
Project Engineering Intern

- Successfully directed 7 projects with a combined cost of $300k across 3 chemical plants
- Submitted over 10 CAPEX requests for various maintenance projects involving pump and compressor replacements and general plant refurbishment
- Evaluated and proposed 2 continuous improvement project opportunities that amounted in $50k+ savings per year to management
- Investigated and resolved low standard documentation by creating an easy to follow naming system for equipment identification

RESEARCH EXPERIENCE

Dean's Research Award, Edmonton, AB December 2018 – June 2019

Student Researcher

- Created a Python program that extracted data from a mobile robot in a robotic simulation environment and applied it to real-time collision detection
- Developed software that implemented graph theory and reconciled it with motion planning algorithms to forecast robot motion

Dean's Research Award, Edmonton, AB December 2017 – April 2018

Student Researcher

- Used MATLAB's image processing toolbox to analyze x-ray images of foam samples to identify structural characteristics that quantified material properties

TECHNOLOGICAL SKILLS

Excellent	Proficient	Intermediate
• Microsoft Office	• ANSYS CFX	• Seeq
• Microsoft Visio	• Slack	• Python
• Solidworks	• Trello Board	• MATLAB
	• Solidworks Visualize	• Arduino
	• Solidworks PDM	• HTML5
		• CSS
		• SAP

ADDITIONAL INFORMATION

Academic Achievements

- Max and Marjorie Undergraduate Scholarship ($1500)
- Undergraduate Academic Scholarship ($3000)
- Jason Lang Scholarship ($3000)
- University of Alberta Academic Excellence Scholarship ($3000)

Other Experiences

- Western Engineering Competition (2020)
- IVHQ Volunteer Abroad: Portugal (2019)
- Edmonton Youth Basketball Association coach (2017 – 2019)
- Junior Materials Technician intern at the Wood Group (2017)
- University of Alberta EcoCar Mechanical Team participant (2017)

Certifications

- H2S Alive
- First Aid/CPR Level C
- Alberta Class 5 Driver's License with a clean record