ADESH SANGIONE

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Projects: https://adeshsangione.github.io/Portfolio/

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 modelled 60% of the team's AUV through multiple design cycles
   • Managed 6+ large-scale projects that included redesigning existing infrastructure valued at $8k
   • Created over 80 fabrication drawings which have been utilized to successfully fabricate 2 major
     assemblies with a combined value of $3.5k
   • Organized and presented 2 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 regulatory preventative maintenance plan to key stakeholders with annual savings
     of $25k
   • Audited over 600 engineering documents and communicated key takeaways to management
     while implementing solutions

Chemtrade Logistics, Edmonton, AB   May – December 2018
Project Engineering Intern
   • Directed 7 projects with a combined cost of $300k across 3 chemical plants
   • Submitted over 10 CAPEX requests for various maintenance projects involving part
     replacements and general plant refurbishment
   • Proposed and evaluated 2 continuous improvement project opportunities that amounted in
     $50k+ savings per year
   • Investigated and resolved low standard documentation by creating an easy to follow naming
     system for 500+ process instruments

RESEARCH EXPERIENCE

Dean's Research Award, Edmonton, AB   December 2018 – June 2019
Student Researcher
- Created a Python script that extracted data from a mobile robot in a robotic simulation environment and applied it to real-time collision detection

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	Trello Board	Python
SolidWorks CAD	SolidWorks Visualize	MATLAB
	SolidWorks PDM	Arduino
		HTML5
		CSS
		SAP

ADDITIONAL INFORMATION

Academic Achievements
Max and Marjorie Undergraduate Scholarship ($1.5k), Undergraduate Academic Scholarship ($3k), Jason Lang Scholarship ($3k), and University of Alberta Academic Scholarship ($3k)

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