

# ADESH SANGIONE

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Projects: <https://github.com/AdeshSangione>

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## EDUCATION

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

**University of Alberta, Canada** September 2015 – April 2020  
*Bachelor of Science in Mechanical Engineering, Cumulative GPA: 3.9/4.0*

## ENGINEERING EXPERIENCE

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

- Designed 60% of the team's new Autonomous Underwater Vehicle through multiple design cycles
- Managed 6+ large-scale projects that included redesigning existing infrastructure valued at \$8k
- Created and reviewed 80+ drawings for manufacture to fabricate 2 major assemblies valued at \$4k
- Headed mechanical procurement and logistics with over 10+ vendors to purchase 150+ parts
- Coordinated 3 weekly design meetings for 15+ members ensuring projects met specifications

**Imperial Oil Limited, Calgary, Canada** September – December 2019  
*Upstream Kearnal Calgary Facilities Engineering Intern*

- Oversaw and led a production enhancement test cycle from conceptualization to implementation in the field that justified a \$2M per year business case
- Formulated 5+ CI testing procedures to increase bitumen recovery with estimated savings of \$20M+ and recommended solutions to management
- Determined redundancies in a preventative maintenance plan and reorganized it to realize annual savings of 25%
- Audited 600+ engineering drawings, presented outcomes to management, and implemented solutions

**Dean's Research Award, University of Alberta, Edmonton, Canada** January – June 2019  
*Mechatronics Student Researcher*

- Designed a robotic simulation environment for 3 mobile robots to prototype motion planning algorithms
- Devised a method to extract 10+ crucial characteristics of a robot to develop collision detection logic

**Chemtrade Logistics, Edmonton, Canada** May – December 2018  
*Project Engineering Intern*

- Directed 7 successful projects with a combined cost of \$300k across 3 chemical plants
- Identified, proposed, and evaluated 2 CI opportunities that amounted in \$50k+ savings per year
- Redesigning equipment naming convention and maintenance procedures for 500+ equipment
- Spearheaded rental boiler project to ensure appropriate heating of volatile chemicals that decreased transportation costs by \$30k per month

## ADDITIONAL INFORMATION

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**Technical Skills:** Microsoft Office, SolidWorks (CAD, PDM Client, and Visualize), Seeq, Python, MATLAB, Arduino, ANSYS CFX, HTML5, CSS, SAP, Design of Experiments, 3D Printing, Manufacturing Techniques, Supervised Learning, Data Visualization

**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), Dean's Research Award (2018), Junior Materials Technician intern: 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 (clean record)