

# Bodie Damo

12804 - 63 Avenue  
Edmonton, Alberta T6H1R8

(780) 757-8468  
damo@ualberta.ca

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## Highlights and Qualifications

- 9 months combined mechanical thermo and hydrodynamic engineering research. Developing governing equation for Mars' water cycle and designing a submersible using 3D modeling software (SolidWorks) with a restricted budget and time frame.
- Graduated with a 3.2/4.0 GPA, 6 scholarships, and current certification in Construction Safety Training System, WHMIS, First Aid Level C and AED
- 6 years owning a lawn maintenance company with up to 6 clients, overseeing 1 assistant, purchasing, using and maintaining snow blowers and lawncare machinery while attending university full-time. Responsible for budgeting, scheduling, and maintenance of equipment while maintaining excellent customer relations and helping to cover tuition.
- Aquatic Swim instructor and water safety ambassador for two summers teaching, testing and analyzing up to 60 students' progress daily, with weekly reporting and daily statistics. Working with stakeholders, students, and teams to ensure safety of patrons in a calm, effective manner.
- Team lead in course work and president of student club ensuring scheduling, budget adherence, client satisfaction, volunteer training, sourcing materials and acting as liaison.
- Proficient in simulation software such as MATLAB, Star CCM+, SolidWorks, and XFOIL
- 7 years dedicated volunteer experience with current vulnerable sector criminal record check: teaching students, visiting elderly, and coordinating videography & website for congregation.
- Certification in leadership, conflict resolution, and planning
- Student member of APEGA with an engineer in training application in progress

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## Education

**Bachelor of Science, Mechanical Engineering (B.Sc.ME)\*** 2013 - 2018

University of Alberta, Edmonton, AB **EGA:3.4/4.0**

### Key Electives:

- **Design Project** (MEC E 460) Team lead researching and designing for a Suncor \$4M froth truck loading system to optimize production with a 6-person team including logistical planning.
- **Aerodynamics** (MEC E 537) Procured fundamental knowledge of aerodynamics with a focus on air foils and helicopter flight in relation to rotor design.
- **Computational Fluid Dynamics** (MEC E 539) Developed computational skills in MATLAB and Star-CCM+ modeling software using numerical methods to model a variety of fluid phenomena.
- **Manufacturing Processes** (MEC E 364) Enhancing skills and knowledge in manufacturing processes such as casting, forming, machining, powdered metallurgy, additive manufacturing, CNC machining, laser and waterjet cutting, and plastic manufacturing techniques

**Scholarships:** Louise Miller Award (2018); Jason Lang (2016 & 2017); Robert Tegler Award (2014); Academic Excellence (2013); Rutherford (2013)

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## Work Experience

**Research Assistant** May - Sep 2017

Professor Lange, University of Alberta

- Independently researched, developed and derived governing equation for mathematical analysis of a 2-D simulation for Mars' day water cycle in relation to heavy salt composites.
- Collaborated with professor to guide research in preparation for next phase of investigation

**Research Assistant**

May - Aug 2016

Professor Ghaemi, University of Alberta

- Co-designed submersible using SolidWorks for drag reduction testing including flow simulations.
- Drafted schematics, checked final design through SolidWorks simulation, and adapted the design to meet specifications and budget constraints effectively.

**Aquatic Safety Instructor**

Jun - Aug 2014; 2015

City of Edmonton, Edmonton, AB

- Instructed and supervised 5-10 courses daily, with 60 students, in a fast-paced environment, led parent/student conferences, developed and managed 60 + daily statistics and weekly reports while successfully interacted with colleagues safely monitoring and overseeing 400+ patrons.

**Landscape Manager and Proprietor**

May 2011 - Sep 2017

Edmonton, AB

- 6 years operating business with annual revenues of \$3K, 6 clients, and maintaining equipment. Managing yards, schedules, payments, and equipment in a professional, friendly manner.

**Volunteer Experience****Technology Coordinator**

2012 - Present

South Edmonton Church of Christ, Edmonton, AB

- Leading and managing 8 volunteers with \$2K budget and equipment. Trouble shooting technical problems of videography, organizing and managing weekly schedule, training volunteers, and monitoring YouTube and Website accounts.

**President for Campus Bible Talk**

Sep 2013 - 2018

University of Alberta, Edmonton, AB

- Responsible for 3-person executive team and members with a \$1500 budget. Coordinating with Campus Director. Expanding leadership skills by scheduling weekly meetings, attending workshops and courses, and ensuring compliance with University standards.

**Computer Skills****Design:**

- SolidWorks: very proficient
- AutoCAD: working knowledge
- Star CCM+: working knowledge
- XFOIL: working knowledge

**3D& Visual Effects:**

- 3-D Studio Max: working knowledge
- Unity: working knowledge

- Adobe After Effects/Premier: proficient

**Programing:**

- MATLAB: proficient
- Mathcad: proficient
- Command Prompt: working knowledge

**General Software:**

- MS Office Suite - Power Point, Word, Excel: very proficient

**Certifications, Training and Memberships**

- Recipient of Work Safety Award - 2011
- Certified in Construction Safety Training System and WHMIS - 2013 and current
- First Aid Level C and AED - Achieved Canadian Red Cross Water Safety Instructor Certification and Lifesaving Society Bronze Cross Award - Updated 2017
- Conflict Resolution (City of Edmonton 2016)
- President Training and Leadership 101 (University of Alberta 2016-2017)
- Facilitating Effective Meetings and Event Planner Training (University of Alberta 2016-2017)