FIRST LAST NAME, B.Eng., M.A.Sc.

MECHANICAL ENGINEERING GRADUATE

PHONE	EMAIL	ADDRESS	LINKEDIN
(555) 555-5555	email@1gmail.com	Halifax, NS	LinkedIn Address

PROFESSIONAL SUMMARY

A highly trained and results-driven Mechanical Engineer with both a Master's and Bachelor's Degree in Mechanical Engineering willing to employ over 5 years of expertise in the energy and aerospace sectors. A resourceful and critical thinker capable at leading multiple projects while utilizing technical skills in conceptual and preliminary design, analysis of mechanical systems and engineering components, CAD modelling, calculating the energy of thermal-fluids systems and working in compliance with relevant codes and standards. A strong team member able to motivate others to achieve optimal performance while maintaining high safety practices.

CORE COMPETENCIES

- Project Planning & Execution
- Technical & Analytical Skills
- Interpersonal & Organization Skills
- Critical Issue Resolution
- Strong Aptitude for Mechanical Systems
- Self Starter & Decision-Maker
- Innovative Problem Solver
- Multi-Project Management
- Oral & Written Communication
- Organization & Time Management
- Business Planning
- Continuous Improvement
- Teamwork & Collaboration
- Mechanical Dexterity
- Writing Technical Engineering Reports

TECHNICAL COMPETENCIES

- 2D and 3D CAD modelling, AutoCAD, Autodesk Inventor, Siemens NX and Creo, and Autodesk Revit
- ASTM Standards, Canadian Aviation Regulations, ASME Design Handbooks, ASHRAE Standards, Ontario Building Code and CSA Standards
- Layout and design of HVAC, plumbing and piping systems
- Microsoft Office Software: Word, Excel, Outlook, Publisher, and PowerPoint

PROFESSIONAL EXPERIENCE

MECHANICAL INTERN | COMPANY TECHNOLOGIES INC., OTTAWA, ONTARIO

SEPTEMBER 2018 - PRESENT

- Perform system-level flow analysis and energy calculation for the compressor, turbine and cooling systems of gas turbine powerplants. Prepare written engineering reports for senior management based on these calculations.
  Outcome - These calculations provide an in-depth understanding of the system design features, resulting in applicable and accurate metal temperature predictions of critical components.
- Manage 3D laser scanning and CAD modelling of critical gas turbine powerplant components and assemblies, including blades, nozzles, discs, seals, and casings.
- Devised a process improvement strategy tailored to the workflow of the company by implementing extra analytical tools, which alleviated uncertainties in CAD and energy calculation processes.
  Outcome - Shortened project duration by as much as three weeks and saved $50,000 in one specific project case.
- Promote the company's products and services to prospective clients through business presentations, and the design of visually interactive software utilized at trade shows.
  Outcome - Captured client interest in the cost-effective benefit of the company's technologies and secured 20 client leads through these presentations representing approximately $500,000 in new revenues.

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PROFESSIONAL EXPERIENCE CONTINUED...

GRADUATE TEACHING ASSISTANT | TORONTO UNIVERSITY, TORONTO, ONTARIO

SEPTEMBER 2016 - MAY 2018

- Organized, instructed and evaluated problem analysis sessions for two mechanical systems design courses for third and fourth-year students, and one second-year fluid mechanics course. Each class consisted of approximately 75 students.
- Reviewed, revised and created course content by introducing multiple industrial case studies which captured students' attention of critical concepts, practices and engineering ethics through effective and real-life storytelling.
- Displayed thoughtful leadership, along with coaching and mentoring to aid in student development by providing technical and writing support in-class and after hours.
  Outcome - Resulted in academic improvements of a handful of students throughout the university terms.
- Critically reviewed and graded student deliverables including technical design reports, system requirement documents and CAD drawings.
  Outcome - Resulted in on-time delivery of high-quality and in-depth feedback that contributed to quality improvements of the students' final project deliverables. Student performance improved by 20% over one academic term. Demonstrated the following core competencies: Attention to detail, organization and time management skills.
- Nominated for the university-wide *Outstanding TA Award*.

MECHANICAL DESIGNER (CO-OP) | CARLETON UNIVERSITY, OTTAWA, ONTARIO

MAY 2014 - AUGUST 2015

- Conducted conceptual design studies and preliminary component sizing for a vacuum system, including ducting design, filtration system sizing and fan selection.
- Designed and manufactured system performance testing equipment using limited manufacturing capabilities that were in accordance with ASTM standards.
  Outcome - Saved $1,000 and three months in manufacturing time.
- Produced 2D schematics of the system layout using AutoCAD and supervised the shop manufacturing process.

PAST APPLIED ENGINEERING PROJECTS

Mechanical System Designer, Carleton Zero Emission Gas Turbine Project, Natural Resources Canada & Carleton University, September 2015 - May 2016

- Developed an engineering design for a compressor system of a 10 MWe gas turbine powerplant valued at $2.2M.

Team Member, Blackbird Unmanned Aerial Vehicle Competition, Carleton University, September 2011 - April 2018

- Established low-fidelity simulation models for three clean-sheet airframe designs of multiple unmanned aerial systems. Revised the design documentation report to win first place in the design paper competition phase.

EDUCATION

Master of Applied Science Degree, Mechanical Engineering

Toronto University, Toronto, Ontario, September 2016 - February 2019

Bachelor of Engineering Degree, Aerospace Engineering

Halifax, Nova Scotia, September 2011 - May 2016