Artur Sharykin

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Engineering Co-op Program

ACADEMIC AND CO-OP STATUS

Mechanical Engineering, BSc Co-op, University of Alberta	*Class of 2026*
Cumulative Grade Point Average	*3.8/4.0*
Completed Academic Terms	*5/8*
Completed Co-op Work Terms	*2/5*
Availability Starting September 2024	*12 months*

TECHNICAL SKILLS

Design & Simulation: *SolidWorks, Simulink, Visual Studio, OpenFOAM, ParaView, Blender, Unreal Engine*
Calibration & Measurements: *ETAS INCA, ATI VISION, Kvaser CanKing*
Programming: *C++, C#, Python, MATLAB, SQL, Git, HTML, CSS, Designed personal web page (www.sharykin.me)*
MS Office: *Excel, Word, Outlook, Teams, Access*

WORK EXPERIENCE

Teaching Assistant *Aug 2021 - Aug 2023*
Kumon Heritage Centre, Edmonton, AB

- *Assessed current math levels and helped plan optimal education strategies to help students improve analytical comprehension and test taking skills, helping over 30 students daily.*
- *Tracked learning progress of over 50 students to identify areas of weakness and knowledge in students' mathematical knowledge.*
- *Directed an online-learning pilot project and overlooked 6 participating students.*
- *Obtained 4 months of training for tutoring mathematics, from simple addition to university level calculus.*
- *Collaborated with a team of teaching assistants and instructor to generate structured study plans for all 200 attending students.*
- *Cooperated with other teaching assistants and main instructor with small tasks in a fast-paced environment.*

EMS Calibration Engineering Co-op *Aug 2023 - Present*
Westport Fuel Systems - Alternative Fuel Systems, Calgary, Alberta

- *Obtained 8 months of training on Calibration Engineering methodology and techniques.*
- *Calibrated and diagnosed issues in new-generation vehicle electronic control unit to ensure highest standard of quality throughout all stages of development.*
- *Repaired and re-integrated variable potentiometer based 121 pin load box simulation bench test to increase electronic control unit testing conditions.*
- *Validated 2 transmission control units for optimal performance and functionality, leading to findings in faulty code and incorrect PCB design due to discrepancies in component values.*
- *Designed and verified several electronic control unit labels in SolidWorks.*
- *Performed various calibration verification tests on engine dyno tests and in vehicle test to confirm vehicle emissions are up to Indian Bharat Stage-6 emission standards.*
- *Created comprehensive documentation to resolve boot-loading sequence issues for small batch of affected customers.*

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PROJECT EXPERIENCE

CAD Design Project *Sep 2022 - Jan 2023*

Mechanical Design I, (MEC E 260)

- *Collaborated with 5 team members through the task of designing and manufacturing a small-form payload vehicle capable of catching two separate payloads, taking the payloads past a hill and dropping off each payload at respective drop-off point.*
- *Managed a team of 5 people and directed workflow between subsets in the team by the strengths of each team member.*
- *Designed and generated drawings of gearbox assembly and steering system connections using SolidWorks.*
- *Presented assembly designs, along with overall vehicle description, to judges as part of a final report.*

Home Lab *Nov 2022 - Present*

Personal Networking Project, Edmonton, Alberta

- *Designed and built a home server running Unraid OS with a focus on network efficiency and privacy.*
- *Developed solutions to improving network security of exposed NVR camera system by adding 2 extra layers between the NVR and home network.*
- *Set up a network-wide ad blocker and tracking blocker using Pi-Hole, blocking up to 22% of all domain queries and helping cut down advertiser tracking.*
- *Developed advanced proficiency in Docker and Linux systems, along with Windows server distributions.*

ADDITIONAL INFORMATION

Class 5: *Reliable vehicle and willing to relocate*
Languages: *English (Fluent), Russian (Fluent), French (Basic)*