

SARA BORANBAYEVA

SKILLS

Research and product development, prototyping, verification and validation testing, quality assurance, reliability testing, FMEA, modelling, FEA

Software: MATLAB, Simulink, Python, Arduino, AutoCAD Inventor, SolidWorks, NX, ANSYS, Fusion 360, LabVIEW

OBJECTIVE

To obtain a Mechanical Design Engineer position at Veemo, allowing me to utilize my university education and practical skills gained through 2 years of co-op experience.

EXPERIENCE

System Team Co-op | Stryker Corp. | Jun – Aug 2019

Design changes of medical devices, root-cause analysis, verification testing, preliminary product prototyping, design of test setups.

Mechanical Engineer Co-op | Dynamic Attractions | Aug – Dec 2018

Vehicle chassis design changes, modelling of large roller-coaster tracks, generation of manufacturing drawings, quality control.

Product Engineer Co-op | Stryker Corp. | Sept 2017 – May 2018

Reliability testing of medical devices, building and troubleshooting test jigs, data processing, writing test protocols and reports, assembly and operation instructions, verification testing.

Electronics Intern | Robert Bosch GmbH | Jan – Aug 2017

Design of test setups for optical sensors, characterization testing of inertial rate sensors, data analysis.

VOLUNTEER EXPERIENCE

Project Manager | UBC Capstone | Sept 2019 – Apr 2020

ORBIS Human Sensory Augmentation

Lead Mechanical Engineer | UBC BEAR | Aug 2018 – Apr 2019

GRASP Bionic Hand



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EDUCATION

BASc | Mechanical Engineering | Sept 2015 - May 2020

Mechanical Design Process, Industrial Robotics, Automatic and Modern Controls, Applied Electronics and Electromechanics, Mechanics of Materials, Fluid Mechanics, Thermodynamics, Heat Transfer, Machine Design, Manufacturing Processes, Engineering Economics, Mechanical Vibrations, Orthopedic Biomechanics