LARS HALLSTROM

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EDUCATION

University of Michigan, Ann Arbor MI

December 2020

Bachelor of Science in Mechanical Engineering

- Coursework with emphasis on practical design, modeling, real world integration, and hands-on testing.
- Elective coursework focused on human health and fitness, entrepreneurship and environmental business ethics.

Danish Institute for Study Abroad, Copenhagen Denmark

Innovation and Entrepreneurship in Europe

 Collaborated in a team to create mock startup company and pitch to venture capitalist investors in Helsinki, Stockholm and Copenhagen.

WORK EXPERIENCE

RESEARCHER | NORWEGIAN SCHOOL OF SPORTS SCIENCES, OSLO NORWAY

May 2019 - February 2021

- Validated new athlete tracking technique by analyzing data collected from World Cup slopestyle events.
- Developed new technique for estimating athlete center of mass position from complete and partial 3D body models.

R&D INTERN | CENTRE OF HEATH INNOVATION – HOME OF THE INTERNET OF SPORTS, ÅRE SWEDEN Sept 2018 – Dec 2018

- Created and applied code to time-synchronize video and wind measurements to a ski and snowboarding slopestyle course tool utilized for world cup events.
- Planned a product based on research for the consumer market with project leads and advisors.

DESIGN INTERN | BLACKBOXEFX, COPENHAGEN, DENMARK

May 2018 - June 2018

- Designed and prototyped an enclosure for electronic music device to launch company Kickstarter campaign.
- Acquired insight pertaining to management of a small company while working in a startup co-working space.

SALESMAN and ASSISTANT MECHANIC | MOTOR CITY BICYCLE, ANN ARBOR, MI

May 2017 - October 2020

- Consulted with customers to find best bike while considering budget, future needs, and return on investment.
- Performed all duties of mechanic under supervision of head mechanic.

SKILLS AND ABILITIES

SOFTWARE

SOLIDWORKS, MATLAB, Autodesk Inventor, Autodesk Fusion 360, 3D printing, HTML, Microsoft Office.

DESIGN

Instrumented Spatial Linkage for Biomechanics Analysis

January 2020 - April 2020

- Developed mechanical device to measure 3D position of shoulder joint to validate algorithm for body-worn inertial sensors.
- Implemented forward kinematic model to calculate overall humerothoracic angle across instrumented 6-bar linkage.

Michigan Neuroprosthetics Design Team

September 2017 - May 2018

 Designed a 3D printable neural-controlled prosthetic with a team for children in need, with specific focus on the phalanges to be used on the prosthetic hand.

Independent Design Projects

May 2017 - October 2020

 Designed and built a 36' long, cantilevered roof, boat shelter which required the management of a project budget, material procurement, work hours and project timeline.

COMMUNICATION

International Study and Internships

May 2018 - September 2019

- Managed remote research position run from Norway and Switzerland.
- Honed communication skills with people from different backgrounds, cultures, and languages.
- Worked with teams to meet tight deadlines while navigating unfamiliar surroundings.

LEADERSHIP

University of Michigan Nordic Ski Team President

March 2018 - March 2020

- Lead independent team of Nordic ski athletes organizing training and competition trips.
- Developed website and lead fundraising/equipment acquisition efforts.

University of Michigan Nordic Ski Team Vice-President

March 2017 - March 2018

• Organized team logistics for National Championship week in Lake Placid, NY.