

Markus Isaacson

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EDUCATION

UNIVERSITY OF MICHIGAN

Bachelor of Science in Engineering in Mechanical Engineering

Ann Arbor, MI

December 2023

GPA: 3.925 / 4.00

Relevant Coursework: Introduction to Solid Mechanics, Dynamics and Vibrations, Design and Manufacturing I, Multivariable and Vector Calculus, Introduction to Differential Equations

Honors/Awards: Accepted into selective Innovation Theme Community, Tau Beta Pi Electee

Winner of The William J. Branstrom Freshman Prize (placed in upper 5% of freshman class in fall semester)

AWTY INTERNATIONAL SCHOOL

International Baccalaureate Diploma and Texas High School Diploma

Houston, TX

May 2020

Testing: 1580 SAT Super Score, 800 Math 2 SAT Subject Test, 800 Physics SAT Subject Test

International Baccalaureate Diploma Score: 40 **GPA-Unweighted IB Classes:** 93.92 / 100

EXPERIENCE

SCHLUMBERGER

Maintenance Service Worker

Deadhorse, AK

June 2021 — August 2021

- Performed maintenance on facilities, rigs, and equipment on the Alaska's North Slope, working 12-hour days over 14-day hitches in a remote Arctic location.
- Completed 30 hours of safety and injury training and utilized a variety of personal protective equipment. Empowered to stop any unsafe work. Maintained collaborative and safety focus due to hazards including polar bears, toxic chemicals, heavy equipment, flammable materials, and work at height.
- Grinded welds on coil tubing well servicing superstructures. Swept, painted, power washed, and organized equipment yards. Utilized powered and unpowered tools, heavy pneumatic machine tools, and automotive paint sprayers. Operated forklifts, as well as scissor and boom style man lifts. Rebuilt high-pressure Chiksan swivel joints.

OFFSHORE TECHNOLOGY CONFERENCE (OTC) ENERGY CHALLENGE

Student Competitor

Houston, TX

August 2018 — March 2020

- Collaborated in 1. Won Digital award at OTC Energy Challenge Competition.
- Invited to present design at Chinese American Petroleum Association (CAPA) and won a Young Innovator award.
- Presented design at inaugural American Society of Mechanical Engineers Advanced Clean Energy Summit in Denver, Colorado, September 2019, and received a certificate of appreciation from ASME. Applying for design patent.

PROJECTS

Design Build Test Project for Introduction to Engineering Class

August 2020 — December 2020

- Developed a robot in a 3-person team to deposit objects into goals in a competition style tournament.
- Designed robot components using Onshape CAD software for use in robot, and operated robot during tournament.

Design Build Test Project for Design and Manufacturing I Class

August 2021 — present

- Collaborated in small group to build a robot to complete tasks on a tournament playing field.
- Designed robot components using SolidWorks CAD software for use in robot, machined parts from acrylic and metals.

SKILLS

SolidWorks: Certified as a SolidWorks Mechanical Design Associate (CSWA). License number C-GW5PKDMKTW.

Computer: Experience in C++, MATLAB, Arduino, GRANTA EduPack (CES), Word, Excel, PowerPoint, Photoshop, Google Drive

CAD: Experience in Onshape, SolidWorks, and Siemens NX

Machining: Experience with hand, powered and pneumatic tools, lathes, mills, drill presses, vertical and horizontal band saw.

ACTIVITIES

Tau Beta Pi tutor for calculus and computer science courses

2021 — present

- Led students through Calculus I, Calculus II, and introductory computer science problems and projects.

Varsity Track, Varsity Cross Country

2016 — 2020

Absaroka Beartooth Wilderness Foundation Volunteer

2016 — present

- Assisted in creation of hiking trails in rural Montana through manual labor and backpacking to remote worksites