

Ibrahim Ahmed Alnassar

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Permanent Address

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Current Address

2204 Devon Circle
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Education

University of Michigan – Ann Arbor, MI

B.S.E in Mechanical Engineering; expected graduation May 2024
Minor in Computer Science

GPA: 3.96/4.0

Relevant Coursework: Data Structures and Algorithms, Practical
Data Science for Engineers, Introduction to Solid Mechanics

Sep 2020 to Present

Projects

-Contributed to implementing machine learning models in Python
and Sci-kit Learn that predict solar radiation patterns
-Developed a fully playable version of the card game Euchre in C++,
with support for both human players and A.I.

February 2021 – April
2021

March 2021

Experience

Saudi Aramco – Dhahran, Saudi Arabia

Research and Development Center

Student Intern

- Independently led a project focused on applying computer vision and machine learning to dispersion image analysis
- Conducted background research on available open-source software and resources applicable to the project
- Implemented a working machine learning model using internal and external resources, with potential for future development and applications

May 2021 – June 2021

University of Michigan - Ann Arbor, MI

Focused Ultrasound for Appendicular Soft-Tissue Sarcomas

Research Assistant, Dr. Geoffrey Siegel

- Reviewed medical literature to acquire knowledge of sarcomas and human anatomy relevant to the research study
- Utilized Materialise Mimics to create 3D models and measurements of tumors and other critical structures from declassified MRIs of human thighs

September 2020 – April
2021

Presentations

**Focused Ultrasound for Appendicular Soft-Tissue Sarcomas:
Three-dimensional Targetability Assessment**

Engineering Research Symposium, University of Michigan

UROP Symposium, University of Michigan

- Discussed targetability to focused ultrasound of a subset of appendicular soft tissue sarcomas based on two-dimensional and three-dimensional measurements

February 2021

Awards

**Undergraduate Research Opportunities Program (UROP) Blue
Ribbon**

Awarded for organized and well-designed visual representation of
data in the UROP symposium presentation

April 2021

Computer Skills

Platforms: Visual Studio Code

Languages: Intermediate knowledge of C++

Basic Knowledge of Python and MATLAB