

BILAL ABDUL HALIM

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EDUCATION

University of Toledo, Toledo, Ohio

Master's of Science in Mechanical Engineering
Concentration in Fluid Mechanics

Overall GPA: 4.0

August 2020 – May 2022

University of Toledo, Toledo, Ohio

Bachelor's of Science in Mechanical Engineering
Concentration in Applied Mathematics

Overall GPA: 3.9

August 2015 – May 2020

EXPERIENCE

University of Toledo

Graduate Researcher

May 2020 – Present

Toledo, Ohio

- Simulated and studied crack formation in ice using Abaqus.
- Implemented the Abaqus Python modules to script and post process data.
- Optimized Abaqus jobs to run on the Ohio Super Computer using Unix Shell commands.
- Prepared and presented reports and presentation using Markdown and L^AT_EX.

Learning Enhancement Center

Engineering & Mathematics Tutor

October 2016 – May 2020

Toledo, Ohio

- Tutored students individually and in groups all fundamental Mathematics and Engineering courses.
- Guided students through complex mathematical and engineering problems.
- Encouraged independent learning through different techniques.
- Managed and trained new tutors on different skills and techniques.

Plastic Technologies Inc

Finite Element Analysis Engineer

January 2019 – August 2019

Holland, Ohio

- Translated various physical problems to accurate FEA models.
- Conducted stress and thermal analysis on different plastic packages.
- Improved company's R&D department through Abaqus Scripting (Python).
- Worked closely with the design team providing suggestions based on FEA results.
- Guided customers to an optimum package design through iterative FEA.
- Wrote and organized proposals and reports for customers.

CERTIFICATIONS

Six Sigma: Master Black Belt

International Quality Federation, IQF
ID: BA14185MB

December 2021

Bash Scripting

Linkedin
ID: AUZ54-zRZLuP_V0BAHE4V4ABVCQS

May 2021

TECHNICAL SKILLS

FEA & CAD

Abaqus, SolidWorks, NX, Autocad

Software & OS

Microsoft Office Suite, Linux, Vim

Computer Languages

Python, MATLAB, C/C++, AWK, Bash, L^AT_EX