

BILAL ABDUL HALIM

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EDUCATION

University of Toledo, Toledo, Ohio

August 2020 – May 2022

Master's of Science in Mechanical Engineering

Overall GPA: 4.0

University of Toledo, Toledo, Ohio

August 2015 – May 2020

Bachelor's of Science in Mechanical Engineering

Minor in Applied Mathematics

Overall GPA: 3.9

EXPERIENCE

Learning Enhancement Center

October 2016 – May 2020

Engineering & Mathematics Tutor

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

January 2019 – August 2019

Finite Element Analysis Engineer

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.

PICSSL

June 2017 – January 2019

Material Science Researcher

Toledo, Ohio

- Lead a project on pressure-sensitive foams.
- Conducted a plethora of polymer characterizations XRD, DSC, SEM, FTIR, UV VIS.
- Designed and built a setup for in-situ pressure vs. transparency measurements, with a published patent.
- Utilized Python and Excel to interpret data, generate high-quality charts and propose hypotheses.
- Presented proposals and reports for specialized faculty members.

TECHNICAL SKILLS

FEA & CAD

Abaqus, SolidWorks, NX, Autocad

Computer Languages

Python, MATLAB

Software

Microsoft Office Suite, Linux, Vim