

Eli Rotman

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Education

- University of Michigan** / 3 years May 2023
3.959 GPA
- Materials Science and Engineering major
 - Computer Science minor
 - University Honors (Fall 2019-Winter 2022)
 - Dean's List (Fall 2019, Fall 2020-Winter 2022)
 - William J Branstrom Freshman Prize (2020)
- Western Michigan Christian High School** / 4 years May 2019

Related Experience

- Wolfspeed** / Process Engineering Intern 2022
- Served with the metals process engineering team in Durham, NC
 - Improved quality control systems for metals sputtering machines
 - Regularly ran various tests on wafers in a clean room environment.
 - Developed a new method for calibrating machines which utilizes significantly less wafers
- Automatic Spring Products Corporation** / Assistant Launch Manager 2020 - 2021
- Served as the assistant to the Ford Launch Manager at a major automotive part supplier for companies such as Ford, Adient, GM, and American Axle.
 - Regularly monitored and improved control plans and part quality
 - Formally exited over 130 separate part programs from pre-production into production
 - Assisted in launching 53 Ford parts for use in products such as the F-150 Lightning
 - Studied contamination sources throughout the plant and proposed actions to reduce contamination
- Shahani Research Group** / team member 2021 - Present
- Conducted a study of deformation/recrystallization textures and grain growth in metals
 - Utilized large-scale data analysis and processing on an unprecedented dataset consisting of 10553 real grains
 - Presented in the 2021 Michigan Materials Research Institute Symposium
 - 11/9/21, "Observing Recrystallization Textures in Commercially-Pure Aluminum Using X-ray Diffraction Techniques"
- Chemical Engineering Car Team** / team member 2019 - 2021
- Experimented with the reactions in a semi-formal lab setting
 - Gathered valuable data for controlling the car reaction
 - Assisted in designing the car with a CAD program

Skills

- Experience with electron and optical microscopy, tensile testing, hardness testing, and other lab and clean room procedures
- Experience with Solidworks, Matlab, JMP, C++, and Microsoft Office
- Public-speaking experience including technical presentations, and business meeting leadership
- Writing experience including formal research papers, lab reports, and business memos
- General knowledge of semiconductor and automotive industry practices and standards