

Anuvi Gupta
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Education

Bachelors of Science in Materials Science and Engineering **Fall 2021-Present**

Experience

Student Researcher at Case Western Reserve University **Jan. 2023-Present**

High Density Connector

- Characterization of aerosol jet printed HD circuit board
- Conducted qualitative and quantitative analysis of aerosol jet printed circuit board

Intern at Terves Inc.

May 2022-Present

Bioabsorbable Implant

- Helped develop a workplan for the JDA between Terves Inc. and Magsorbeo
- Assisted in casting 10 alloys of varying compositions
- Conducted spark analysis of castings to determine viability of the alloys
- Conducted an aging and extrusion study to determine extrusion parameters for future extrusions
- Ran lab scale extrusions and analyzed data to determine extrusion speed
- Developed a method to machine 0.025” diameter samples of the magnesium alloys that were cast

Other Projects

- Machined fatigue samples to specific diameters
- Conducted microscopy
- Rolled magnesium foil

Awards

SOURCE - STEM 2023 Summer Research Scholar

Interests

Looking to assist in or conduct research to improve biomedical implants so that they are bioabsorbable. Also interested in improving long term implants.