ANISH KHOT

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Summary

Driven and reliable college student pursuing a bachelor's degree in biomedical engineering at Case Western Reserve University. Pursuing a career in biomedical engineering, emphasizing biomechanics and medical devices.

Education

Case Western Reserve University (CWRU), Cleveland, Ohio — Graduation Year: 2025
B.S.E in Biomedical Engineering, Biomechanics Track
Minor in Mechanical Design and Manufacturing

Skills And Certifications

- Software: SOLIDWORKS, ANSYS, MATLAB, Vicon Nexus, CorelDRAW, Python
  - CSWP (2024) - Certified SOLIDWORKS Professional
- Manual Machining: OMAX Waterjet, CNC Router, Saws, Surface Grinder, Vertical Mill, Lathe

Design Projects

CWRU EMAE 415 - INTRODUCTION TO MUSCULO-SKELETAL BIOMECHANICS

- Developed FEA study of lumbar spinal fusion using non-crosslinked rods using ANSYS.
- Wrote FEA report detailing stress results and discussions of the spinal implant system.

CWRU EBME 370- SENIOR DESIGN - BIOMEDICAL ENGINEERING

- In a group, designed a non-invasive device that allows individuals with temporal lobe epilepsy to provide clinicians with continuous and reliable EEG data.
- Utilized advanced CAD modeling to model an over-the-ear surface electrode holder to interface with microcontrollers attached to the individual.

Professional Experience

INNOVATIVE DELTA TECHNOLOGY, LLC — Chagrin Falls, Ohio
Co-op Student — July 2024 - Current

- Creating 3D CAD models & 2D Drawings using SolidWorks for various medical device prototypes.
- Playing a key role in the design and development of spinal implant instrumentation for spinal surgery.
- Operating 3D printers to produce prototypes with precision, facilitating rapid product development and testing.

Advanced Platform Technology Center, Louis Stokes Cleveland VA — Cleveland, Ohio
Research Assistant — May 2022 - July 2024

- Creating protocols and methods to develop the Open Source Leg, developed by the Neurobionics Lab at the University of Michigan Ann-Arbor, into a bidirectional neuroprosthesis.
- Aiming to mitigate balance confidence in lower limb amputees through neuroprosthetic research.
- Developed a low-level impedance controller system to mimic human musculoskeletal movement.
- Presented abstract findings in a poster presentation at BMES Annual Meeting 2023.

Leadership And Activities

CWRU Baja Motorsports — Cleveland, Ohio
Executive Board Member & Logistics Lead — June 2023 - Current

- **First Place Overall Winners Baja SAE Ohio 2023**
- Collaborating with executive board members to execute major team decisions, such as competitions, spending, schedule, and design.
- Responsible for creating and modeling testing plans, procedures, and testing jigs related to component-specific and system-wide testing requested by the subsystem leads.
- Facilitating component and vehicle testing at various CWRU Motorsports testing locations.
- Enhancing my engineering education through real-world CAD design and manual manufacturing processes.