

ANISH KHOT

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SUMMARY

Driven & reliable engineer pursuing a Masters of Biomedical Innovation and Development at Georgia Institute of Technology. Pursuing a career in industry, emphasizing biomechanics & medical devices.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY , Atlanta, Georgia	Graduation Year: 2026
Master of Biomedical Innovation and Development (MBID)	
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 & 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
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DESIGN PROJECTS

CWRU EBME 370/380- SENIOR CAPSTONE DESIGN - BIOMEDICAL ENGINEERING

- Collaborating with clinicians & engineers in designing a non-invasive device that records continuous & reliable EEG data in individuals with temporal lobe epilepsy
- Developing a ML algorithm to detect & record temporal seizure characteristics to inform clinicians on better management of patient care.
- Utilizing advanced CAD modeling to model an over-the-ear surface electrode holder to interface with embedded custom electrodes & microcontrollers.

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 & discussions of the spinal implant system.
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PROFESSIONAL EXPERIENCE

INNOVATIVE DELTA TECHNOLOGY, LLC	Chagrin Falls, Ohio
<u>Research & Development Co-op Student</u>	July 2024 - December 2024
<ul style="list-style-type: none">• Created 3D CAD models & 2D Drawings using SolidWorks for various medical device prototypes.• Played a key role in the design & development of spinal implant instrumentation for spinal surgery.• Conducted finite element modeling to analyze spinal implants for strength & stress behaviors.• Operated 3D printers to produce device prototypes, facilitating rapid product development & testing.	
ADVANCED PLATFORM TECHNOLOGY CENTER, LOUIS STOKES CLEVELAND VA	Cleveland, Ohio
<u>Research Assistant</u>	May 2022 - July 2024
<ul style="list-style-type: none">• Created protocols & methods to develop the Open Source Leg, developed by the Neurobionics Lab at the University of Michigan Ann-Arbor, into a bidirectional neuroprosthesis.• Aimed 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 & ACTIVITIES

CWRU BAJA MOTORSPORTS	Cleveland, Ohio
<u>Executive Board Member & Logistics Lead</u>	June 2023 - June 2025
<ul style="list-style-type: none">• Collaborating with executive board members to execute major team logistics, such as competitions, spending, schedule, & design.• Responsible for creating & modeling testing plans, procedures, & testing jigs related to component-specific & system-wide testing requested by the subsystem leads.• Facilitating component & vehicle testing at various CWRU Motorsports testing locations & competitions.	