

ANISH KHOT

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SUMMARY

Biomedical Engineer with **3+ years' experience** designing innovative spine orthopedic implants/instrumentation, developing biomechanical control methods for lower-limb neuroprosthetic research, and implementing advanced manufacturing processes in medical and automotive areas. Currently pursuing a degree in biomedical innovation and design to bolster my knowledge of the life cycle medical device development. Looking to continue the development of medical device centered design and manufacturing skills to enable global product launches.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, Georgia Master of Biomedical Innovation and Development (MBID)	Graduation Year: July 2026
CASE WESTERN RESERVE UNIVERSITY (CWRU) Cleveland, Ohio B.S.E in Biomedical Engineering, Biomechanics Track Minor in Mechanical Design and Manufacturing	Graduation Year: May 2025

PROFESSIONAL EXPERIENCE

INNOVATIVE DELTA TECHNOLOGY, LLC Chagrin Falls, Ohio <u>Research & Development Co-op - SPINE</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.Operated 3D printers to produce device prototypes, facilitating rapid product development & testing.	
ADVANCED PLATFORM TECHNOLOGY CENTER 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 2023 Annual Poster Presentation.	

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, finances, design schedule & inputs.Responsible for creating & modeling testing plans, procedures, & testing jigs related to component-specific & system-wide testing requested by subsystem leads.Facilitating component & vehicle testing at various CWRU Motorsports testing locations & competitions.	

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.
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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