

# Joshuana Korvie

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## EDUCATION

**Clarkson University**  
**B.S in Mechanical Engineering & Biomedical Engineering**  
**BOREALIS Scholar Alumna | CUPO & LSAMP**

Potsdam, NY  
May 2028

## WORK EXPERIENCE

**Clarkson University**

**Potsdam, NY**

*Researcher*

*July 2024 - Present*

- Selected as a cohort member of BORELIS, which the National Institute of Health funds under Award Number R25EB033080 to conduct research.
- Researched under Dr. Kevin Fite in the Fall of 2024, assisted with the dissertation of a graduate utilizing SOLIDWORKS to create a prosthetic finger holder.
- Researched under Dr. Masudul Imtiaz in the Summer of 2024, focused on utilizing machine learning and EEG signals for biometric security, exploring brainwaves as a security mechanism to safeguard sensitive information.
- Utilized EMOTIV MN8 Earbuds to extract brainwave data, MNE to process brainwaves, and applied ANOVA algorithms for feature differentiation.

**Durham Bulls Athletic Park**

**Durham, NC**

*Event Concierge & Ticket Scanner*

*March 2023 - August 2024*

- Coordinated over 50 private parties on outdoor patios and distributed wristbands to differentiate private party attendees from regular customers, ensuring safety and providing a personalized experience.
- Supported ticket scanners at gates during peak hours before games, resulting in shorter wait times.

**Durham County Triangle Wastewater Treatment Plant**

**Durham, NC**

*Plant Operator Assistant(LEEP Intern)*

*June 2023 - August 2023*

- Extended FY23 contracts and digitized projects and pay labels by utilizing advanced Database and Microsoft skills, leading to easy accessibility and a reduction in administrative workload.
- Conducted thorough analyses of effluent and influent water quality, increasing accuracy and data reliability.
- Assisted plant operators in optimizing water flow for base cleanings and water purification processes.

## LEADERSHIP EXPERIENCE & ACTIVITIES

**National Society of Black Engineers**

**Potsdam, NY**

*Freshman Representative*

*August 2024 - Present*

- Actively promoting and recruiting freshmen at events such as “New Knight Expo Day” and “Freshman Mixer” while maintaining consistent engagement.
- Collaborated with the Executive Board on organizing workshops like “Career Fair Workshops” and “Software Engineering Bootcamp” to prepare members for the professional world, as well as team-building activities like “Beach Day.”

**Clarkson Construction Club**

**Potsdam, NY**

*Member*

*August 2024 - Present*

- Evaluated cost options with other members on a playground project, recommending custom design and sourcing materials to meet clients' needs and safety within budget.
- Collaborated with other members to strategically design a playhouse for Trinity Church from scratch.
- Assisted in developing effective project timelines and budgets to ensure the team was on time and within budget.

## AWARDS, SKILLS & INTERESTS

**Awards:** National Institute of Health Research Award Number R25EB033080, NSBE: September Member of the Month, DPS Board of Education Appreciation Award, \$1,925 Scholarship by IBM Quantum

**Computer:** MATLAB(Certified), SOLIDWORKS, Python, Database, JAVA, C++, JavaScript, CSS, HTML, Microsoft Office (Word, Excel, PowerPoint, and Access), SQL, Quantum Computing(Certified, Intermediate), p5.js Game Development(Certified)