

Sarah Glomski

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SUMMARY

A passionate innovator who brings creativity and drive to every aspect of life. Graduated with distinction from Duke in Biomedical Engineering and is now pursuing a Master's in Surgical Robotics to build expertise needed to lead Product Development in MedTech. Continuous learner with diverse experiences—consistently recognized as a valuable team player.

EDUCATION

Duke University, Pratt School of Engineering Durham, NC
MEng in Mechanical Engineering (4+1 Program), Certificate in Surgical Robotics, 4.0 GPA *Aug 2023 - May 2025*
BSE in Biomedical Engineering, Magna Cum Laude with Departmental Distinction, 4.0 GPA *Aug 2020 - May 2024*

RESEARCH & DEVELOPMENT

Surgical Education and Activities Lab (SEAL), Duke University Durham, NC
Graduate Researcher *Aug 2024 - Present*

- Designing a sensor-integrated tissue model to measure stress during suturing to quantify surgeon performance
- Improving training in surgical robotics by creating ML algorithms to give real-time feedback on robotic suturing

Los Alamos National Laboratory Los Alamos, NM / Remote
Non-Destructive Testing & Evaluation (QA) Engineer *May 2023 - Aug 2024*

- Optimized quality assurance of nuclear detonators to help monitor and preserve the aging U.S. nuclear stockpile
- Developed and implemented a new CT calibration method with 800% finer accuracy and 500% noise reduction
- Streamlined CT artifact research by creating a framework to connect simulation and reconstruction software

Injury Biomechanics Laboratory, Duke University Durham, NC
Undergraduate Researcher *Feb 2021 - May 2024*

- Trained several algorithms and ML models to classify sub-concussive head impacts from high school football players
- Presented findings to hundreds of engineers at the annual Biomedical Engineering Society (BMES) conference

Gener8 Carlsbad, CA
Product Development Intern *Jun 2022 - Aug 2022*

- Revived a neglected project developing a blood draw device and improved blood volume collection by 400%
- Designed over 60 SolidWorks parts for biotech clients and reported progress to stakeholders via slide decks
- Gained expertise in product development, injection mold manufacturing, validation testing, and managing a BOM

DOmath Computed Tomography (CT) Research, Duke University Remote
Undergraduate Researcher *May 2021 - Jul 2021*

- Developed and implemented a new algorithm for more accurate targeted radiation therapy of a region of interest

LEADERSHIP & ENTREPRENEURIAL

When2Tent Web App Durham, NC
Lead Developer & Founder *Oct 2023 - Present*

- Developed an algorithm for creating optimized schedules for Duke's tenting season (Duke vs UNC basketball game)
- Launched when2tent.com to help teams create optimized schedules; saw 180 registered users in the 2024 season

Brain Injury Awareness Committee Durham, NC
President & Founder *Mar 2021 - Present*

- Facilitating state-wide support groups to help brain injury survivors; published a magazine to share their stories
- Discussing current brain injury research and spreading data-based awareness to the Durham community

Duke Robotics Durham, NC
Treasurer & Mechanical Team Member *Aug 2020 - Apr 2022*

- Placed 1st in international competition by validating the design of our autonomous sub with SolidWorks FEA
- Managed a \$160k budget as club treasurer and presented grant proposals to raise funding

ADDITIONAL SKILLS

- **Engineering:** R&D, Quality Assurance, Manufacturing, SolidWorks, Fusion 360, FEA, LS-DYNA, PCB Design
- **Biomedical:** Medical Device Design, Biomechanics, Medical Imaging, CT reconstruction, Biotech consulting
- **Computer Science:** Python, MATLAB, Machine learning, TensorFlow, Keras, OpenCV, MongoDB, FIJI, C++