

Daniel T. Knaus

Tucson, AZ 85705

(708)-870-8560 | knausd@arizona.edu | knausdanny@gmail.com

EDUCATION

University of Arizona

Bachelor of Science in Biomedical Engineering

Cumulative GPA: 3.464 In Major GPA: 3.775

Tucson, Arizona, USA

May 2025

University of Arizona

Master of Science in Biomedical Engineering

Tucson, Arizona, USA

Expected December 2026

SKILLS & CERTIFICATIONS

Technical Skills: Proficient in Microsoft Word, Microsoft Excel, & Microsoft PowerPoint; Eagle CAD, SolidWorks, AutoCAD, Fusion 360; Proficient in Python, MATLAB, & Arduino

Certifications: Azure Database Administrator Associate & Power BI Data Analyst Associate

Practical Skills: Leadership, Project Management, Problem Solving, Communication, Critical Thinking

WORK & LEADERSHIP EXPERIENCE

WATER BADDIES, Senior Design Team

Team Lead

Tucson, Arizona, USA

August 2024 – May 2025

- Led team in development of novel water contaminant testing device capable of testing: microplastics, inorganics, and heavy metals.
- Presented Poster to ASAIIO Conference 2025
- Finalists for 3 awards
 - Won Sharon O'Neal Social Impact Award

Dr Philipp Gutruf Lab

Undergraduate Researcher

Tucson, Arizona, USA

August 2024 – Current

- Contribute to qualitative research on bipolar single-arm ECG wearable technology for continuous monitoring.
 - Recording ECG with carbon-based electrodes, extracting and manipulating data to remove noise.

Dr. Ying-hui Chou Lab

Undergraduate Researcher

Tucson, Arizona, USA

August 2022 – December 2023

- Contributed to improvement of clinical trials involving transcranial magnetic stimulation for memory improvement in Alzheimer's patients.
- Troubleshoot issues with TMS machine to maintain functionality of the equipment.

Kappa Sigma

Founding Father, Social Chair

Tucson, Arizona, USA

November 2021 – May 2025

- Reestablished the Gamma Rho, Kappa Sigma chapter at the University of Arizona.
- Won 2024 IFC Overall Outstanding Chapter

Medical Device Club

Vice President

Tucson, Arizona, USA

August 2022 – December 2024

- Lead demonstrations on skills important for medical device design to other undergraduate engineers.
- Lead projects incorporating a variety of sensors into practical medical device designs.

University of Arizona

Undergraduate Learning Assistant

Tucson, Arizona, USA

January 2025 – May 2025

- Guided students through project-based learning by clarifying design concepts and providing constructive feedback
- Fostered communication and collaboration skills by mentoring teams throughout the design process