

AUSTIN MATHAI

314-458-0965 | austinmathai@gmail.com | <http://www.linkedin.com/in/austinmathai>

Education

Saint Louis University August 2015 – May 2019
Bachelor of Science in Biomedical Engineering
Washington University in St. Louis January 2020 – December 2020
Master of Science in Biomedical Engineering (3.93/4.00 GPA)

Experience

READOUT HEALTH – Saint Louis, MO June 2020 – Present
Engineering Intern

- Work collaboratively with partners in Operations, Engineering, and Product Development teams, allowing a weekly production throughput of 50 Biosense devices
- Upload firmware of Biosense devices via nrf Connect and serial methods to resolve non-conformance and clear backorder of 150+ devices, valued at \$45,000.
- Calibrate and perform Quality Control on 1000+ Biosense devices
- Perform data analysis on various Biosense measurements using Python (Spyder and NumPy) and Google Drive
- Revise Standard Operating Procedures and Work Instructions to ensure compliance with regulations

K2 LOGISTICS – Troy, Illinois April 2018 – January 2019
Data Analyst

- Worked alongside PhD students from Stanford University in gathering trucking logistics data
- Contributed towards research aimed at changing USDOT trucking regulations to benefit truckers
- Implemented a nation-wide data collection change by analyzing various collection times and determining the best window from an efficiency perspective

Activities & Projects

PROSTHETIC LIMB FOR PATIENTS WITH UPPER LIMB PARALYSIS August 2018 – May 2019
Senior Design Project: Team Member

- Project scope: Developed, tested, and presented a 3D printed prosthetic limb controlled by voice commands
- Individual scope: Designed 3D mold of limb, assembled electrical components, handled administrative tasks, and managed project to completion

COLLEGIATE HONORS PREPARATORY PROGRAM August 2015 – May 2019
Vice President (2016-2018) and President (2018-2019)

- Coordinated with 5 inner city high schools to offer free ACT tutoring and materials for their students
- Increased organization membership by 40+ students and worked with SLU administration to expand program

INDIAN STUDENT ASSOCIATION August 2015 – May 2019
Member (2015-2018) and Social Chair (2018-2019)

- Planned 10+ cultural events that tied Indian culture into the growing Indian American population at SLU (300+ members)
- Handled club finances and coordinated with charities to host events to benefit them

TEDxSLU August 2017 – May 2018
Productions Committee Lead

- Organized sound and logistics, coordinated photography, and led social media for TED talk events

BEST BUDDIES January 2020 – Present
Associate Buddy

- Member of Friendship Chapter at Washington University in St. Louis
- Helped foster inclusive living for people with intellectual and developmental disabilities

GUSOO January 2020 – Present
Member

- Digital platform that highlights the diversity and complexity of the St. Louis food scene
- Contributed by targeting primarily immigrant and refugee created restaurants in St. Louis

Skills

General	Problem Solving, Critical Thinking, Data Analysis, Leadership, Attention to Detail
Software	MATLAB, Python, Spyder, Java, AutoCAD, SolidWorks, Altair Inspire, MS Office, COMSOL, ANSYS
Communication	Technical Writing, Public Speaking, Project Management, Organization & Documentation

Relevant University Coursework

Quantitative Physiology, Materials Science, Tissue Engineering, Thermodynamics, Transport Fundamentals, Biomedical Instrumentation, Orthopedic Biomechanics, Biomedical Business Development, Biotech Innovators, Soft Nanomaterials, CAE Driven Mechanical Design