

# AUSTIN MATHAI

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## Education

### **Saint Louis University**

Bachelor of Science in Biomedical Engineering

August 2015 – May 2019

### **Washington University in St. Louis**

Master of Science in Biomedical Engineering (3.93/4.00 GPA)

January 2020 – December 2020

## 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

<b>General</b>	Problem Solving, Critical Thinking, Data Analysis, Leadership, Attention to Detail
<b>Software</b>	MATLAB, Python, Spyder, Java, AutoCAD, SolidWorks, Altair Inspire, MS Office, COMSOL, ANSYS
<b>Communication</b>	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