

JAYANTH S. TATIKONDA

jayantht@umich.edu • +1 (317) 691-3162 • www.linkedin.com/in/jayanth-tatikonda
1300 S University Ave, Apt 1203D • Ann Arbor, MI 48104

EDUCATION

University of Michigan

Ann Arbor, MI

B.S.E. in Biomedical Engineering, Concentration in Medical Device Development

Dec. 2022

Cumulative GPA: 4.00/4.00

International Minor for Engineers

Honors: Engineering Global Leadership Honors Program; William J. Branstrom Scholar; Dean's List; George M. Landes Prize

Relevant Coursework: Biomechanics; Biophysical Chemistry & Thermodynamics; Circuits & Systems; Biomedical Engineering Design; Materials & Manufacturing; Computation & Data Analysis

North Central High School

Indianapolis, IN

International Baccalaureate Diploma; GPA: 3.99/4.00; National Merit Scholar; Varsity Soccer; First Chair Tuba

2015 – 2019

Experience: ARIA Diagnostics Intern (Summer 2018); NICO Corporation Shadow (Summer 2019)

EXPERIENCE

MedLaunch

Ann Arbor, MI

Protect Our Smile Project Team Member, Budget Manager

Sept. 2020 – Present

- Designed and produced low-cost clear masks to aid communication for hard of hearing community during COVID-19 pandemic
- Collaborated with project lead and core team using financial expertise to identify budget issues with regards to material costs
- Determined optimal mask design through rapid prototyping and multiple iteration cycles with feedback
- Devised cost and time-effective manufacturing method for producing and delivering masks
- Implemented website to centralize useful beneficial information about team for volunteers and customers

M-HEAL (Michigan – Health Engineered for All Lives)

Ann Arbor, MI

PeriOperative Project Team Member, Temperature Sensor Subteam

Sept. 2019 – Present

- Helped develop functioning warming device to prevent perioperative hypothermia for public hospitals in Dominican Republic
- Modified earpiece and headset design using SolidWorks and 3D printing along with comfortability feedback (hold sensor steady in order to accurately measure core body temperature)
- Documented design changes with rationalizations to facilitate understanding between subteams

TechPoint

Indianapolis, IN

S.O.S. Challenge Participant

June 2020 – Aug. 2020

- Participated as a user experience engineer on a multi-disciplinary team to help telehealth industry with COVID-19 challenges
- Created mobile application to assist chronic pain patients in monitoring and recording symptoms and progress
- Redesigned user interface and enhanced usability of application through multiple iteration cycles with stakeholder feedback
- Awarded best solution out of nine projects focusing on telehealth industry (judged by subject matter experts)

University of Michigan

Ann Arbor, MI

Mechanics and Materials in Design Project

Sept. 2019 – Mar. 2020

- Investigated engineering design of the activL® intervertebral disc replacement system for degenerative disc disease patients
- Collaborated with team members to brainstorm ideas, collect and analyze data, and apply formal project management tools
- Proposed novel dimpled-surface cobalt chromium endplate of activL® disc to reduce inflammation-causing polyethylene debris
- Synthesized team research, design evaluation, and proposed recommendation in a presentation to 80 peers and professors
- Formal report awarded second place, out of 100+ projects, in The George M. Landes Prize for Technical Communication

SKILLS

Computer: C/C++, MATLAB, Python3, SolidWorks, COMSOL, Autodesk Fusion 360, 3D Printing.

Languages: Spanish (conversational).

OTHER

U.S. Citizen. Born Chapel Hill, North Carolina. Involved in Beta Mu Epsilon Professional Biomedical Engineering Fraternity and Intramural Sports. Hobbies include soccer, reading, skiing, movies, working out, and traveling.