

Ritvik Jillala

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Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Biomedical Engineering and Computer Science

May 2022

GPA: 3.90 / 4.00

Coursework: AI in BME, Biomedical Instrumentation Design, Circuits and Systems in BME, Web Systems, Biochemistry, Introduction to Biomechanics

Experience

Blueprints for Pangaea

Ann Arbor, MI

Analyst

September 2020 - Current

- Formulated and initiated 5-year plan for expansion and establishment of chapters across North America
- Focused on reallocating 100,000 pounds of excess, unused medical supplies to areas of need overseas
- Engaged in shipments with Project CURE accumulating to over \$3.3 million to underdeveloped countries

University of Michigan Biomedical Engineering

Ann Arbor, MI

Instructional Aide – Circuits and Systems for BME

December 2020 - Current

- Led lab instruction, provided ~30 students with an understanding of biomedical instruments and circuits
- Coordinated and promoted remote student (65% of class) inclusion in lab experience during COVID-19
- Assessed student needs and communicated effective strategies to solve problems and understand material

Center for Healthcare Engineering and Patient Safety

Ann Arbor, MI

Research Assistant

December 2020 - Current

- Developed effective strategies to improve access in the COVID-19 system recovery phase at VA Ann Arbor, decreasing expected wait time by 50%
 - Expanded and facilitated implementation of developed strategies to VA healthcare system nationally
 - Collaborated on the development of call and night schedules for attending faculty at Michigan Medicine
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Projects

The Initiative

Ann Arbor, MI

Heating Subteam Lead

September 2020 - Current

- Designed a thermoregulation system and mattress to regulate neonatal body temperature, using a PID control system, PWM Mosfet, and Arduino Mega
- Integrated w/bassinet consisting of clothing carrier supporting Kangaroo Care between neonate and caretaker
- Motivated 3-5 students to engineer first functional prototype, after years of slow progress

Project RISHI

Ann Arbor, MI

Project Research & NGO Search Committee Chair

September 2019 - Current

- Initiated and implemented 3-year plan for establishment and maintenance of toilets in Seithur, Tamil Nadu
 - Managed 8-9 students to arrange and execute toilet construction project, reduced open defecation
 - Facilitated contact and maintained relationships with local non-government organization (Sulabh)
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Skills

Programming Languages: Python, C, C#, C++, Ruby, HTML5, CSS, JavaScript, Ruby, SQL

Programming Applications: Arduino, LabView, MATLAB, Simulink, SolidWorks, Microsoft Office

Activities

VA Ann Arbor Healthcare System, COVID – 19 Screener

October 2020 - Current

Michigan Izzat, Logistics Captain

September 2019 - Current