Ananya Tadigadapa

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Education

Northeastern University, Boston, MA — May 2025
Candidate for a Bachelors of Science in **Computer Engineering and Computer Science, Minor in Math**
- **GPA: 3.97**, Honors and Awards: Honors Program, Dean's List,
- Coursework: Digital Logic Design, Algorithms & Data, Linear Systems, Embedded Design, Networks, Circuits & Signals, Discrete Structures, Real Analysis, Number Theory

The Pennsylvania State University, University Park, PA — May 2021
- Dual Enrollment Courses: Honors Linear Algebra, Ordinary and Partial Differential Equations

Technical Skills

Intermediate: Python, C++, Java, MATLAB, Linux & Windows OS, Arduino & Raspberry Pi, LaTeX,
Basic: Robot Operating System (ROS), GitHub, LEAN, LISP, SolidWorks, AutoCAD, HTML, CSS, JavaScript

Publications

"The Myowearable Sleeve: A Surface Electromyography Injury Prevention Device"
- Presented at the American Society of Engineering Education **(ASEE) National Convention** in June, 2022

"Smart Containers for Food Storage in Refrigerators", published in **IEEE Potentials** in May 2022

Relevant Experience

Undergraduate Research Assistant under Dr. David Rosen — March 2022 – Present
- Improved testing capability of an ongoing project on distributed second order optimization using C++
- Study convex optimization and researching existing literature on certifiably correct estimation

Founder of Empowering Girls in Engineering and Robotics (EGER) — September 2018 – May 2021
- Designed and taught free online workshops to around 100 girls in grades 4 – 8 about introductory robotics
- Received a **grant** from EngineerGirl, National Academy of Engineering, increasing participation by 300%

High School Intern at the Charles Stark Draper Laboratory — July 2019 – August 2019
- Engineered a water potablity node to alert for urban toxins in pipes; collaborated in a team of 4 students
- Programmed a Raspberry Pi to get sensor data using I2C and Python, assess toxin levels, and send text alerts

Projects

Personal Website (Independent Project, Linked Here) — November 2022 - Present
- Built a personal website and portfolio hosted on GitHub from scratch using self-taught HTML, CSS, JavaScript, and basic design concepts; adding mobile browser compatibility and a personal domain

Summer Lab Volunteer under Dr. Taskin Padir at RiVER Lab — June 2021 – September 2021
- Programmed a Universal Robotics arm with ROS and C++ to be teleoperated by a joystick in a team of 2

Activities

Tau Beta Pi Engineering Honors Society Events Coordinator — November 2022 – Present
Northeastern Symphony Orchestra Public Relations Manager — September 2022 – Present
- Launched and create weekly content for @nusymphonyorchestra Instagram; manage the website and email
- Music studies include piano (2006 - present), flute (2015 - present), composition & songwriting

Study Abroad Dialogue of Civilizations: The Mathematical Heritage of Hungary — July 2022 – August 2022