

SARVESH PRAJAPATI

(857) 313 0466 | prajapati.s@northeastern.edu | [linkedin.com/in/alpharomeo911](https://www.linkedin.com/in/alpharomeo911)

EDUCATION

Northeastern University	Boston, MA
M.S. in Robotics (Concentration in Computer Science)	May 2024
Relevant Coursework:	Mechanical Engineering (Robot Mechanics and Control), Electrical and Computer Engineering (Robotics Sensing and Navigation).
Northeastern Robotics Club:	Working on simulation of Robot Dog in ROS.
Vishwakarma Government Engineering College	Ahmedabad, IN
B.E. in Computer Engineering	June 2022
Relevant Coursework:	Data Structures, Operating Systems, Discrete Mathematics, Analysis and Design of Algorithms, Artificial Intelligence, Microprocessor and Interfacing.

SKILLS

Programming Languages:	C, C++, C#, Python, Java, JavaScript and Bash Scripting.
Computer Skills:	Microsoft Office Suite, Adobe Suite, HTML, CSS and ethical hacking. Knowledge of MATLAB, OpenGL, OpenCV, Unity, TensorFlow, Linux and ROS.
Micro-controllers:	Experience in programming STM32 and Arduino boards.
Interests:	Playing guitar, football, robotics and reading books (self-help and non-fiction).

ENGINEERING RESEARCH EXPERIENCE

Northeastern University	Boston, MA
<i>Research Assistant at ReGame-XR Lab</i>	October 2022 - Present
<ul style="list-style-type: none">Developing Extended Reality games with eye-tracking to improve the motor movement of autistic people.	
Gujarat Technological University	Ahmedabad, IN
<i>Research Scholar</i>	December 2021 - February 2022
<ul style="list-style-type: none">Developed a system after analyzing various PID tuning methods like Zeigler-Nichols, Cohen-Coon: automated the monotonous task of tuning DC motors in 5 minutes.	
Vishwakarma Government Engineering College	Ahmedabad, IN
<i>Researcher Under Government's Innovation Policy</i>	December 2021 - February 2022
<ul style="list-style-type: none">Surveyed diet and health data of 150 patients and built a model to recommend diet to people based on their health.Fabricated PCB for wearable watch based on ESP32 microcontroller to publish the data on the cloud every 5 minutes.	

LEADERSHIP AND ACTIVITIES

Gujarat Technological University Robotics Club	Ahmedabad, IN
<i>Team Leader</i>	September 2021 - August 2022
<ul style="list-style-type: none">Played a pivotal role in shaping team, organizing weekly meetings, and communicating with Faculty and Leads.Led and taught team of 35 Members for ABU Robocon 2022: developed 2 semi-autonomous robots with team.Achieved 10th rank out of 45 participating teams in Domestic ABU Robocon 2022, India.	
Gujarat Technological University Robotics Club	Ahmedabad, IN
<i>Technical Team Member</i>	July 2020 - August 2021
<ul style="list-style-type: none">Achieved 2nd rank out of 28 teams in domestic competition, 7th rank out of 21 teams in ABU Robocon 2021, China. Our team was able to complete the entire task in 1 minute and 24 seconds, which was a cut above the 17 teams.Coordinated with electrical and mechanical team; programmed 6 semi-autonomous robots for ABU Robocon 2021.Implemented Statistical Learning to precisely throw arrows into pots having diameter of 100mm by estimating the pressure based on feedback from distance sensor, got a r-squared value of approximately 0.956.	

ADDITIONAL EXPERIENCE

Magtapp Technologies Private Limited	Mumbai, IN
<i>Backend Developer Intern</i>	January 2020 - June 2020
<ul style="list-style-type: none">Automated tedious task of uploading details of 4000+ books on server that saved 30+ human hours every week.Wrote a script to scrape data from multiple e-commerce websites that scrapped data of 10,000+ products.	