FIRSTNAME LASTNAME

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EDUCATION

Tech Finalists: International Robotic Competition (eYRC) & Bachelor's Capstone Project in Mechanical Department Conferences: IEEE, American Control Conference ACC'24 | Indian Institute of Science, I-4AM'22 | Delivered 2 talks Courses: Linear Algebra | Sequential Decision Making | RL | ML | UAVs | Perception | Optimization | Controls | PDE

EXPERIENCE

Brainchip, Solutions Architect Intern (Robotics & RL Specialist) | Remote (California, USA) May 2023 - Aug 2023 - Implemented 3D models and ROS-joints controlled through Q-Learning, RL model operated on AKD1000 Chip.

- · Accelerated development by 40%, delivered a fully functional Al-controlled robot from scratch.
- Engineered the swift transition of neural network designs from TF to BrainChip's MetaTF framework.
 Indian Institute of Technology Bombay, Robotic Software Engineer Intern | Remote (India) May 2020 Aug 2020
 Led an 8-person team to develop a fiducial-marker-based localization model for an unstable camera feed.
- Optimized the localization model using V-rep for real-time camera feeds, achieved a calibration error of ≤ 0.5%.
- Orchestrated design, combined rule-based script and unit tested to validate auto-evaluators with 95% coverage e-Yantra, Robotic Engineer (Co-Founder and Team Lead). India Aug 2019 July 2020
 Coordinated a 4-member team to National Finalist Status (Top 0.3%), built a multi-tasking robot from scratch.
- Optimized pathfinding(A* & Dijkstra) algo. & actions, reduced execution time by 22%, enabled faster navigation.
- Integrated IR, proximity sensors for perception & encoder motors, Servos for autonomous actions | Used CNC.
 ABU Robocon 2020, Robotic Engineer (Team Member) | India Jan 2019 Feb 2020
 Directed team efforts, achieved top 15 (national) in ABU Robocon Stage 1 through innovative robot design.
- Engineered a 3-wheeled omni-drive system, achieved precise movement in any direction for the Pass Robot.
- Modelled throwing hand compliance with pneumatics parameters using the Catapult mechanism and deployed.

SKILLS

Languages Python, C/C++, C#, embedded C, Java, Catkin, CUDA, CMake, Matlab, Git, Bash, LaTeX, Vim, PCL, I2C Robotics ROS 1/2, V-Rep, Gazebo, Ansys, Movelt, MuJoCo, FEA, CFD, Arduino, AtMega 2560, Sensor Fusion, PLC Software Linux, Tensorflow, Pytorch, Docker, OpenCV, ZeroMQ, B0RemoteAPI, CorelDraw, Solidworks, Fusion360 Certifications Robotics Software Engineer, Udacity Nanodegree – (2023) | Self-Driving Cars, University of Toronto – (2023)

PROJECTS