Jerrin Bright [Mechanical Engineer]

Versatile Engineer with expertise and skills in Robotics, Data Science, CAD Designing & Simulations, Front-End Website developing and Optimization.



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EDUCATION

Under-Graduation - Vellore Institute of Technology (B. Tech)

2018 - Present **CGPA: 8.26**

School- Chettinad Vidyashram (CBSE)

10TH 9.4 CGPA: 12TH: 8.26 **CGPA: 8.26**

WORK EXPERIENCE

Research Intern - Autonomous System Developer

Aero2Astro Oct 2020-Present

Developing a firmware for navigation using ROS & SLAM concepts. Once implemented will resolve GPS reception glitches in UAVs.

Operation Manager Intern

a Madras Scientific Research Foundation Oct-Dec 2020

Working on cutting-edge research in Additive Manufacturing. The concept is to detect defects & Reinforcing for 3D Printer models.

Data Science Intern

BrainMagic InfoTech Pvt, India May-June 2020

Developed an App for Automobile parts recognition, using AWS Machine learning via customized Models with high precision.

Project Research Intern

Yuan Ze University, Taiwan April - June 2020

Worked on Smart Surveillance System, using ConvCRFs for Semantic Segmentations & Acoustic Event detection.

Co-Founder and Team Lead, ATOM Robotics

Jan 2019 - Present VIT University, Chennai

A platform for young aspiring minds to prospering robotics. A team consisting of 50+ passionate engineers with more than 20 awards.

PROJECTS

"VESTIUM" - Designed & implemented a smart robotic furniture, which maximizes small spaces & is poised to transform urban living. At present in prototyping phase, with optimism to make it a startup product.

ASCR (Autonomous Stair Climbing Robot)- Intended to autonomously deliver a package from one location to another. Designed using Fusion360. Path planning (Navigation) has been achieved via CV & ROS. X-Ray Detection-Built a deep learning model, detecting 14 different chest related diseases. Was trained with MobileNet pre-trained models & Data-Augmentation techniques resulting with an overall IOU of 75%.

Autonomous Mobile Robot- Custom built a differential-drive robot and created URDF files along with the world. Implemented SLAM techniques with Extended Kalman Filter and navigation via Adaptive Monte Carlo Localization, path planning via Theta* any-angle algorithm.

SKILLS



RESEARCH AND PUBLICATION

BEST PAPER AWARD- RIACT 2020 International Conference Robotics, Intelligent Automation and Control Technologies

TOPIC: Optimization of a quadcopter frame using generative design and comparison with DJI D450 drone frame

AUTHORS: Jerrin Bright, Suryaprakash R, Akash S, A Giridharan ABSTRACT: A research accentuating on drone frame designing via various stratagems including Generative designing, simulations & associating results attained from the aforementioned outcomes with a DJI F450 frame.

ACHIEVEMENTS

GALACTIC PROBLEM-SOLVER by NASA INTERNATIONAL

Winner of CURRENTS'20, NIT Trichy Autonomous Line follower Winner of KURUKSHETRA, CEG Anna University RoboZest First Runner-up of International Youth Fest, Line follower Fourth Runner-up of ATMOS'19, BITS Pilani Law follower Winner of VASHISTH'19, IIITDM Kanchipuram Law follower Winner of Roboprix19 and 20, VIT Chennal, Line follower Winner of Pistoboltz, MIT Chennai, Autonomous Line follower

VOLUNTEER-EXPERIENCE

ML Contributor

Oct-Dec 2020

2020

Contributing ML blogs via CodeSpeedy Tech to various blog-based companies. Published 5 ML and DL bogs in their website.

IEEE - RAS April 2019-Present

Active member of the Robotics and Automation Society.

National Service Scheme May 2019 - Present

Active Member of Indian Government Sponsored public service program. Part of several awareness programs - International Coastal Cleanup Day, ICG Ship Visit.

RoboPrix 2020

Student Coordinator - National Level Robotics Competition