

# Sanjay Subramaniam

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## EDUCATION

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- **Manipal Institute of Technology** Manipal, Karnataka  
*Bachelor of Technology in Mechatronics Engineering, Minor in Digital Marketing* 2017-2021
  - Embedded Systems at Project Manas, Manipal's official AI Robotics team. Won a second prize at Intelligent Ground Vehicle Competition 2018 , Oakland University, Michigan.
  - Represented a class of 80 sophomores to the Student Council for a year. Responsible for organizing lectures, coordinating between faculty and students and answering administrivia.
  - Relevant Coursework: Digital Integrated Circuits, Embedded Systems, Linux and Shell Scripting.
- **Suguna Pip School** Coimbatore, Tamil Nadu  
*Physics, Math, Chemistry and Computer Science* 2015-2017
  - Scored a 90% in 12th grade CBSE board examinations.
  - Awarded the Outstanding Rylarian award by the Rotary Club of Coimbatore, TexCity for leadership and public speaking skills.
  - Delegate at Indian International Model United Nations, Kodaikanal.

## EXPERIENCE

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- **Aekam Labs** Coimbatore, Tamil Nadu  
*Lead Instructor* Feb 2021 - Present
  - **Front-end Development:** Coached high school and university students in the basics of front-end web development. Helped them start their open-source projects, and kick-started their coding journey.
  - **Open-source projects co-ordination:** Organized and coordinated development of Aekam's open-source efforts. Technologies used: .NET, Django, Tailwind CSS, Bootstrap and Angular.
- **Dreamtraps Media** Manipal, India  
*Freelance Writer* Feb 2021 - Present
  - **Copywriting:** Generated around INR 10,000 a month from freelance writing projects.
  - **Independent blogging:** Averaged around 200 page views a week. Wrote over 30,000 words over the period.
- **Dubai Cable Company** Abu Dhabi, UAE  
*PLC Programming Intern* Jun. 2019 – Jul. 2019
  - **Alarm System for Sheathing Line:** Built a Siemens S7-300 PLC based alarm system using Ladder Logic for a cable insulation line.
  - **Industrial Training:** Worked with industry professionals and technicians to learn about standard production, testing and maintenance processes.
- **Project Manas: AI Research & Robotics Team** Manipal, Karnataka  
*Jr. Embedded Systems Engineer* Dec. 2017 – Nov. 2018
  - **Intelligent Ground Vehicle Competition 2018:** Our team won a second prize at Intelligent Ground Vehicle Competition 2018, Oakland University, Michigan for the IOP challenge.
  - **Arduino Programming:** Interfaced, calibrated and debugged quadrature wheel encoders for velocity and distance estimation. Responsible for assessing and debugging problems in the embedded and hardware suite that went on the robot.

## PROJECTS

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- **hermione (Ongoing):** Open-source alternative to Goodreads. Using Django and React for most purposes.
- **kindlerWeb:** Open source tool to curate Kindle highlights. Used Django, PostgreSQL and SQLite.
- **noobNet:** Basic Deep Learning Framework built using pure C++ to understand fundamentals