Karthikeyan R

To be Electronics Engineer,
With Computer science in mind

- November 2,2001
- College Of Engineering Guindy, Anna University
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- https://karthikeyan564.github.io/
- karthiceg564@gmail.com
- Indian Citizenship

Social Network

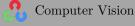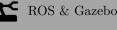- Github Project Page Link
- LinkedIn Page Link
- Researchgate Link

Skills

- Linux
- C/C++
- Tensorflow
- Matlab
- OpenGL
- CUDA
- Computer Vision
- Python
- IC design
- OpenLane
- Verilog
- LTSpice
- Neuron Modelling
- HFSS
- ROS & Gazebo
- Deep RL
- HTML
- CSS

Languages

- English ● ● ● ● ●
- Hindi ● ● ● ● ○
- Tamil ● ● ● ● ○

Education

2019 - present	**Bachelor of Engineering in Electronics and Communication**	CEG,Anna University
	Current CGPA – 9.72	
2019	**Class XII**	National Victor Public School
	Aggregate –95.2%	
2017	**Class X**	National Victor Public School
	CGPA – 10	
2021	**Undergraduate Researcher**	Integrated Systems Laboratory
	Working on GPS Baseband Engine(Digital) IC design and Temperature Sensor(Analog) IC design	

Achievements

2020-2021	**Summer Research Fellow**- The Prestigious Indian Academy of Sciences(IAS)
2021	**First Position**- Techstars Startup Weekend Chennai
2021	**First Position**- MATRIMAZE: An Advanced Matlab Competition, Vision 2021
2021	**First Position**- Web development Hackthon, Abacus CEG 2021
2020	**Third Position**- Algorithm Unlock conducted by Robotics club of CEG
2017 - 2018	**Rank-3(Bronze)** - National Cyber Olympiad(NCO), Delhi Zone Topper
2018 - 2019	**Third Prize**- Silicon Battles Delhi, Senior Quiz

Projects

June 2020 - October 2020	**Tyche** Adaptive traffic control using Deep Reinforcement Learning: Deep Q-Network and Cityflow openAI gym environment
June 2021 - July 2021	**Vivian** Project under Summer Research fellowship: Image based rendering based Reinforcement learning environment for end-to-end training to avoid sim2real, domain adaptation or domain randomization etc using CUDA and OpenGL
May 2021 - present	**RTDrone** An autonomous delivery drone for delivering packages to CEG hostels from kotturpuram gate made in collaboration with Robotics club of CEG using ROS, Gazebo, AirSim, Pixhawk, YOLOV3, Nvidia Jetson Nano
August 2021 - present	**Prometheus** A Neuromorphic IC fabricated in efabless MPW-3 shuttle using OpenLane and Skywater 130nm pdk
May 2020 - June 2020	**MERO** An extensive C++ image manipulation library with SIMD and GPU support for acceleration

Courses Attended

2021	**Operating System Fundementals** An In-depth course on operating system fundementals

Workshops Attended

2017	**IOT Workshop** An in-depth look at IOT with a special focus on Artificial Intelligence and Cybersecurity
2020	**Operating Systems Workshop, Kurukshetra 2020** A Deep look at Unix/Linux internals and File Systems
2020	**Basic Robotics Workshop** A Basic Robotics workshop with hands-on experience

Positions

May 2021 - present	**Undergradate Researcher**- Integrated Systems Laboratory
April 2021 - present	**Student director**- Computer Society of Anna university- Web and app
April 2020 - present	**Member**- Robotics Club of CEG

Extra-Curricular Activities

Sports	NSO - Badminton, Handball
Music	Flute