

ASHISH RAO MANGALORE

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<https://github.com/ashishrao7>

EDUCATION	<i>Bachelor of Engineering in Electrical and Electronics</i> CGPA 9.11/10 <i>R.V College of Engineering, Bengaluru, KA</i>	2012-2016
	<i>II P.U Karnataka State Board Examinations</i> 573/600 (95.5%) <i>Sri Sathya Sai Loka Seva P.U College, Alike</i>	2012
	<i>Class X CBSE Board Examinations</i> CGPA 10 <i>Sri Sathya Sai Loka Seva Vidya kendra, Alike</i>	2010
INTERESTS	Bio-inspired Engineering , Artificial Intelligence, Robotics, Event Based Cameras, Deep Learning	
EXAM SCORES	GATE-2018 (Computer Science & Information Technology) - 556/1000 (98 Percentile) GRE® - 326 Verbal- 163 , Quant- 163 , AWA- 4.5 TOEFL® - 112 Reading- 29 , Listening- 27 , Speaking- 27 , Writing- 29	
PROFESSIONAL EXPERIENCE	Project Assistant <i>Indian Institute of Science, Bengaluru</i>	Sept 2018-Present
	<ul style="list-style-type: none">Working on 2-D Image Reconstruction and 3-D object Reconstruction with event based neuromorphic camerasExploring a Sampling theory for Neuromorphic Sensors	
	Associate Software Engineer <i>Robert Bosch Engineering and Business Services, Bengaluru</i>	Sep 2016-May 2018
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none">Worked on energy analytics for industrial plants.Planned and ran analyses for optimizing the energy consumption of plantsWorked on demand forecasting using LSTMs to help stakeholders estimate energy to be purchased for the next day.Automated processes to generate and keep track of part numbers for the machine building team.	
	Intern <i>Robert Bosch Engineering and Business Services, Bengaluru</i>	Jan 2016-Apr 2016
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none">Worked on reducing error in solar panel temperature predictions. Developed models using regression and ANNs.Developed a workflow to visualize the trend of the collected data points available at each second throughout the day using MATLAB and Simulink.	

EXTRA-CURRICULAR ACTIVITIES	Avionics Engineer <i>Project Vyoma, Aerodesign Team, RVCE</i>	Apr 2013-May 2016
	<ul style="list-style-type: none"> • Made unmanned arial vehicles (fixed-wing and rotory) flight ready. • Deployed autonomous UAVs (fixed-wing and rotory) using the Ardupilot/Pixhawk platform. • Carried out conceptual design of a solar powered fixed wing UAV which was later fabricated in the workshop and tested. • Built and deployed arial photography ready drones to be be used for filming RVCE's college fest. • Built a thrust rig to test thrust generated by different motor-propellor combinations • Participated in international competitions representing the college. 	
	Mentor and Avionics Team Lead <i>Project Vyoma, Aerodesign Team, RVCE</i>	Aug 2014-May 2016
	<ul style="list-style-type: none"> • Oversaw day to day activities of the electronics subsection of the team • Mentored new recruits to the team and oversaw their development • Interacted with sponsors to raise funding for the operation of the team 	
COLLEGE SERVICE	Student Placement Co-ordinator <i>Dept of Electrical and Electronics Engineering, RVCE</i>	Aug 2015-Jun 2016
	<ul style="list-style-type: none"> • Co-ordinated between students of Electrical & Electronics Engineering and the Placement Dept of RVCE for the smooth functioning of the placement process. • Managed hosting of visiting employers, scheduling of events and addressed concerns and grievances of all parties involved in the placement process. 	
PUBLICATIONS	Vijaykumar, R., Rudramoorthy, R., and Rao Mangalore, A. (2017). Prediction of solar PV panel temperature using mathematical models and artificial neural networks. Journal of Computational and Theoretical Nanoscience 14, 4986–4997.	
HONORS & AWARDS	Placed 3rd in the Graduating Batch of EEE Placed 3rd on the basis of 4 year CGPA at the end of the course among the graduating batch of 63 students	2016
	4th in Sparkfun Autonomous Vehicle Challenge Placed 4th in the autonomous vehicle challenge organized by spark fun electronics at Denver, Colorado	Jul 2015
	40th at DBF 2015, AIAA Represented the College Aerodesign team at the Prestigious Design/Build/Fly 2015 contest organized by AIAA in Tucson, Arizona. Finished 40th out of 100 teams	Apr 2015
	Certificate of Merit, Central Board of Secondary Education Awarded the certificate of Merit for scoring a perfect CGPA of 10 in the nationwide Class X Board Exams	2010

	National Talent Search Examination Scholar - Karnataka State Ranked 21st in Karnataka state in stage 1 of the national-level scholarship program conducted by NCERT at the Secondary school level to identify and recognize students with high intellect and academic talent.	2007
TECHNICAL SKILLS	Programming Languages and Mathematical Frameworks <i>Python, C++11, SQL, Matlab, Simulink</i> Frameworks <i>Pandas, Keras, TensorFlow, ROS</i> Computer Aided Design <i>PTC Creo, EagleCAD</i> Other <i>ArduPilot, Arduino, Git, MacOS, Ubuntu, Windows OS</i>	
CERTIFICATIONS	Reinforcement Learning (Center for Continuing Education, IISc) Deep Learning Specialisation <i>Coursera</i> Machine Learning Engineer Nanodegree <i>Udacity</i> Build a Modern Computer from First Principles: From Nand to Tetris <i>Hebrew University of Jerusalem, Coursera</i> edX Honor Code Certificate for Circuits and Electronics <i>edx:MITx</i> edX Honor Code Certificate for Electricity and Magnetism <i>edx:MITx</i>	Aug 2018- Dec 2018 2018 2017 2017 2013 2013
LANGUAGES KNOWN	English <i>Native or bilingual proficiency</i> German <i>A2 Level Proficiency, Certified by Göethe Institut</i> Kannada <i>Native or bilingual proficiency</i> Hindi <i>Professional working Proficiency</i> Sanskrit <i>Elementary Proficiency</i>	