



ARJUN SADANANDA

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Career Objective

My career goal is to design and program robots for a better future.
My interest lies in Computer Vision, Motion Planning, Control Systems,
Mechanical design CAD—CAM and everthing robotics.

Education

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|---|------------------|
| National Institute of Technology Karnataka, Surathkal <i>Bachelors in Mechanical Engineering</i> Coursework includes Manufacturing Technologies, CAE, Analysis and Synthesis of Machines, Machine Drawing. | 2015-19 |
| Indian Educational School, Kuwait <i>High School Science and Computer Science</i> Kuwait Topper in Class 12 CBSE Computer Science | 2009-2015 |

Projects/Achievements

- I eYantra Robotics Competition- IIT Bombay: Third Position -March 2017
 - Focus on Path Planning, PID Control on Differential Drive robot- FireBird and Image Processing
 - Found out of the box solutions to problems like parallax error in robot position estimation using camera, Mechanical Design of robotic Arm/Grabber,
- II Automata: Winning Team Leader and lead programmer -October 2016
Image Processing(Over-Head Camera) and PID Control based robotics competition, conducted during Engineer(NITK) one of the largest Tech Fest in South India.
- III Brain Computer Interface: For Robotic Arm - In Progress
Working Under CSD Labs NITK
- IV Robotic Wooden Arm: Controlled using Arduino (Hobby Project)

Training and Internships

- ◇ International Conference on Control Systems- APCOSEC 2016
Interacted with world renowned Systems Engineers and Graduates behind Student Satellites. Industrial Visit to ISRO Satellite Center.
- ◇ Certified Online Courses related to Robotics:
 - Control Theory for Mobile Robots Coursera GeorgiaTech
 - Machine Learning- Coursera Stanford
 - Applied Computer Science with Android Google (in NITK Campus)

Technical Skills

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|-----------------------|-----------|
| OpenCV | * * * * * |
| Matlab/ Octave | * * * * * |
| Arduino, Raspberry Pi | * * * * * |
| Android Studio | * * * * * |
| Embedded C | * * * * * |
| CATIA | * * * * * |
| PLC (Ladder Logic) | * * * * * |

Soft Skills

- I Leadership
- II Public Speaking
- III Debating
- IV Photo, Music and Video Editing

Co-Curricular Activities

- I IEEE Student Member (2015-2016)
- II Student Council Member, NITK (2015-2016)
- III Deputy Head Boy, Student Council, Indian Educational School, Kuwait.
- IV Iken Scientifica: Kuwait Runner Up
A national level science competition to establish a connection between curricular knowledge and practical application

Extra Curricular Activities

- ◇ Co-Founded TheGreenBrigade, Presently under NSS, NITK
Organized Campus Clean Up Drive inspired by Swachh Bharat Abhiyan
- ◇ National Cadet Corps (August 2015 November 2016)