



# 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

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

## 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

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)

## Languages

English	* * * * * _
Hindi	* * * * * _ _
C/C++	* * * * * _ _
Java	* * * * _ _ _ _
Python	* * * * _ _ _ _

## Research Publications

(i) Hopefully, Coming Soon...