



# 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