



# ARJUN SADANANDA

National Institute of Technology Karnataka, Surathkal  
Manglore-575025  
Karnataka  
Email : arjun.sadananda@gmail.com  
Contact: +91 9980402770

## 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><br><i>Bachelors in Mechanical Engineering</i><br>Coursework includes Manufacturing Technologies, CAE, Analysis and Synthesis of Machines, Machine Drawing. | <b>2015-19</b>   |
| <b>Indian Educational School, Kuwait</b><br><i>High School Science and Computer Science</i><br>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) Coming Soon...

## Personal Information

Fathers Name: Sadananda Adyanthaya

Mother's Name: Anita Sadananda

Sex: Male

Date of Birth: 12 May 1997

Nationality: Indian

## Reference

Gangadharan K V,  
Professor and Ex-HoD Department of Mechanical Engineering,  
Centre for System Design Founder Email: kvganga@nitk.ac.in kvganga@nitk.edu.in

## Declaration

I hereby declare that all the information furnished above is true and genuine to the best of my knowledge  
**Date:** 24th April 2017