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

National Institute of Technology Karnataka, Surathkal *Bachelors in Mechanical Engineering* Coursework includes Manufacturing Technologies, CAE, Analysis and Synthesis of Machines, Machine Drawing.	**2015-19**
Indian Educational School, Kuwait *High School Science and Computer Science* 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

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