# Pavan R Vasishta

*Curriculum Vitae*

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## Personal Information

Date of Birth **May 27th 1991**, *Bangalore*, India.

Personal ✉ **vasishta.pavanr@gmail.com**.

Nationality **Indian**.

## Education

Feb 2016–Present **PhD in Autonomous Vehicles**, *Inria - Universite Grenoble Alpes*, Grenoble, France.

Sept 2015 **Master of Science in Control Engineering, Robotics and Applied Informatics - Advanced Robotics**, *Ecole Centrale de Nantes*, Nantes,France.

Dec 2012 **Proficience Course in Intelligent Agents, *part-time***, *Indian Institute of Science*, Bangalore,India.

Jun 2012 **Bachelor of Engineering in Electrical and Electronics Engineering**, *The National Institute of Engineering*, Mysore,India.

## Selected Publications

Oct 2017 **Natural Vision Based Method for Predicting Pedestrian Behaviour in Urban Environments**, *IEEE 20th International Conference on Intelligent Transportation Systems(ITSC)*, Yokohama, pp. 1-6.

Sept 2017 **Urban Pedestrian Behaviour Modelling using Natural Vision and Potential Fields**, *9th Workshop on Planning, Perception and Navigation for Intelligent Vehicles at the IEEE International Conference on Intelligent Robots and Systems*, Vancouver.

## Experience

June 2012–July 2013 **Associate Software Engineer**, *Robert Bosch Engineering and Business Solutions Pvt. Ltd.*, Bangalore,India.
Worked on Automotive Embedded Programming based on AUTOSAR standard and working experience in Automotive protocols like CAN and Flexray.
Experience in AUTOSAR Diagnostic Modules

June 2011–August 2011 **Student Intern**, *iRobot India (Pvt.) Ltd.*, Mysore,India.
Module design, fabrication,Programming a USB hub and microcontrollers for creating a gaming controller interface for the 210Negotiator robot.

## Master Thesis

Title *Multi-sensor strategy for obstacle avoidance on a collaborative robot*

Duration February 2015–August 2015

Description Project follows the implementation of a control strategy using multiple sensors for the UR10 Robot. The project was carried out at *IRT Jules Verne, Nantes, France.* This was submitted in partial fulfilment for the completion of the Master's degree.

### Master Project

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| Title | *"Non-Linear Control of a Non Holonomous Robot"* |
| Duration | May 2014–July 2014 |
| Description | Project submitted in partial fulfilment for the completion of Master 1 in Advanced Robotics. The aim of this project was to implement non-linear control strategies on a Khepera III robot using a Korebot and ROS |

## Bachelor Thesis

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| Title | *"Semi Automated Wheelchair"* |
| Duration | September 2011–June 2012 |
| Description | Project funded by The Department of Science and Technology, Government of India through the Innovation and Entrepreneurship Development Cell, NIE Mysore.<br>Project to design and develop an indigenous low cost wheelchair for the differently abled. Voice controlled and joystick control. Infrared and Ultrasound sensors used for perception. Completely implemented in C. |

## Awards and Academic Affilliations

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| Award | Awarded funding from the Dept. of Science and Technology, Govt. of India through the Innovation and Entrepreneurship Development Cell for the project “Semi-Automated Wheelchair” |
| Affiliation | Member, IEEE Intelligent Transportation Society |
| Affiliation | Vice Chairman of the National Institute of Engineering IEEE Student Branch |
| Affiliation | Campus Ambassador for IBM University Relations, India |
| Affiliation | Member of ONYX, the institutional branch of the National Entrepreneurship Network, India |
| Affiliation | Core Committee member of the National Institute of Engineering Literary Club |

## Languages

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| Kannada | Mother tongue |
| English | Native Speaker/Bilingual |
| Hindi | Fluent |
| French | Intermediate |

## Skills

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| Intermediate | C++,Matlab, Assembly(Intel 8051),ROS, Gazebo |
| Expert | C, Embedded C, Python |
| Tools | PSpice, AUTOCAD 2008, Solid Edge, CATIA Workbench, DELMIA, mikroC Pro, MPLAB |
| Experience with: | High level programming languages,AUTOSAR development,AUTOSAR tools,scripting diagnostic tests.<br>Embedded systems such as Intel 8051, AVR, PIC16, PIC32, Raspberry Pi, Infineon TriCore 27xx series, Freescale MPC 5675K, Renesas NEC V850. |