Harshul Gandhi

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EDUCATION

Degree/Certificate	Institute/School	CGPA/CAP	Year of Passing
MComp, CSE	National University of Singapore,	3.83	2015
	Singapore		
B Tech, CSE	National Institute of Technology,	8.05	2012
	Bhopal, India		

PUBLICATION

- **Title**: Pixel area based target distance estimating and corresponding target hitting force calculating autonomous robots using single video device; **Conference**: IEEE, CINTI, Hungary, 2011. [URL]
- **Title**: High utility and low cost microcontroller based data acquisition system for antenna encoders; **Conference**: SPRINGER, ObCom 2011, VIT, INDIA. [URL]

PROJECTS

3D reconstruction from 2D:	Made a 3D view of a 2D scene with the help of a single image of the 2D scene.		
National University of Singapore, 2014	Used OpenCV, Python, Qt framework		
Android Incog Mode:	Studied Android for data vulnerabilities. Developed application to run other apps		
National University of Singapore, 2014	in Incognito (protected mode)		
Particle-RRT Algorithm:	Studied Rapidly exploring random tree algorithm and particle RRT algorithm.		
National University of Singapore, 2014	Implemented p-RRT algorithm in C++		
EMBEDDED SYSTEM:	Data Acquisition System to read varying data from Antenna encoders to calculate		
National Institute of Technology Bhopal, 2012	the azimuthal angle of shaft of the device connected to the encoder		
MOBILE SHOPPING WEBSITE:	Developed online mobile custom shop using ASP.NET with C#		
CMC, New Delhi, 2010			
A.I. AND ROBOTICS:	Implemented an algorithm for an autonomous robot, Catabot, that could discern		
National Institute of Technology Bhopal, 2011	the distance of a basket and throw a ball with precision to pass through it		
PROGRAMMING DIGITAL CLOCK:	Developed an algorithm for a fully functional clock and implemented it using a		
National Institute of Technology, Bhopal, 2010	16x2 LCD and Atmega16L Microcontroller (Processor)		

INTERNSHIP AND TRAINING

.NET using C# - Computer Management Corporation

New Delhi, India, May-July 2010

Studied Language C# and developed many Console Based and Window Based Applications using C# and ADO.NET such
as: School management system, Office Daily Management System, Notepad(Similar as in Windows with same
functionality), Airlines Ticket Booking System

Search Based Planning Algorithm - Center for Artificial Intelligence and Robotics, DRDO

Bangalore, May-July 2011

• Studied several research papers on informed search based path planning algorithms such as A*, D*,D* Lite, Lifelong Planning A*, Anytime Dynamic A* and implemented D* Lite algorithm in C++ language on Robot Operating System.

WORK EXPERIENCE

Business Technology Associate

ZS Associates

April 2013 – July 2014

- Developed technical system to assist high end designation people in managing large number of sales representative.
- Involved in design, development and testing (unit, system, integration) of the one project.

Software Engineer

Verizon Data Services

June 2012 - Mar 2013

Develop a system for Unified Ordering of all the products and services provided by Verizon.

LANGUAGES AND TECHNOLOGIES

- Java, C, C#, Python, PHP, HTML, ASP.NET, CSS, MySQL
- Eclipse, Microsoft Visual Studio, Microsoft Visio, Microsoft Excel, CMS Joomla

EXTRACURRICULAR ACTIVITIES

- Over all coordinator of Inter NIT Robotics Championship'11, India, a National Level Event.
- Over all coordinated SWARM ROBOTICS workshop organized by IIT Kharagpur and ROBOSOFT SYSTEMS in Bhopal
- Attained 1st place in 'ZStart Academy Team Case Competition' where I solved a business case and presented the same solution.
- **SOCIAL**: Made an e-stick for blind people using TSOP