

# Abhinav Dadhich

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## EDUCATION

### NARA INSTITUTE OF SCIENCE AND TECHNOLOGY

M.ENG. IN INFORMATION SCIENCE

Expected Oct 2015 | Nara, Japan

Cum. GPA: N/A

### INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR

B.TECH. IN ELECTRICAL

ENGINEERING, 2013

Jodhpur, India

Cum. GPA: 7.43 / 10.0

## LINKS

Github:// [ResByte](#)

LinkedIn:// [adadhich](#)

Quora:// [Abhinav-Dadhich](#)

## COURSEWORK

### GRADUATE

Mobile Computing

Robotics

Computer Vision

Artificial Intelligence

Ambient Intelligence

### UNDERGRADUATE

Data Structure and Algorithms

Introduction to Programming

Signal Processing

Digital Electronics and Microprocessor

Technology

Control Systems

## SKILLS

### PROGRAMMING

Python • C++ • Matlab •

LaTeX

Familiar:

Android • Boost Graph Library •

Point Cloud Library • Robotics Operating

System(Package) • OpenCV • Numpy •

Scikit-Sklearn •

Robots:

TurtleBot • Robovie MR2 • Baxter

## EXPERIENCE

### KYUSHU INSTITUTE OF TECHNOLOGY | RESEARCH STUDENT

Shibata Lab August 2014 - present | KitaKyushu, Japan

- Developing navigation platform for indoor mobile robots.
- Supervisor : Dr. Tomohiro Shibata

### PANASONIC | RESEARCH INTERN

May 2012 - July 2012 | Gurgaon, India

- We delivered an Android Application to automate the end to end hospital process. Our app was about the interaction with NFC (Near field Communication) tags and keeping all the data at the centralized server
- Team : 3 People, Mentor: Nikhil Nahar | Panasonic Research and Development Centre India

## RESEARCH

### MATHEMATICAL INFORMATICS LAB | MASTERS THESIS

#### RESEARCH

Oct 2014 - Present | Ikoma, Japan

- Supervisor : Dr. Kazushi Ikeda, Dr. Tomohiro Shibata.
- Developing navigation platform for mobile robot such as Turtlebot in an indoor scenario. Real-world is continuously changing with objects moving at different speeds, therefore filtering out all the moving objects is not a solution for robust navigation.
- This study aims at classifying the motion of different objects such that a consistent map of the environment is generated. Working towards Publication

### IIT JODHPUR ROBOTICS LAB | UNDERGRADUATE RESEARCH

Oct 2012 - Feb 2013 | Jodhpur, India

- Developed a Video Tracking system for a general object. I
- Implemented Lucas-Kanade method of sparse optical flow in tracking and used SIFT algorithm to detect objects.
- Python is used as working environment with OpenCV libraries. Controller for the system is Beagleboard with ubuntu 11.10.

### IIT JODHPUR ROBOTICS LAB | UNDERGRADUATE RESEARCH

May 2011 - Dec 2011 | Jodhpur, India

Developed Scilab Simulation of Quadcopter Model. Implemented control parameters on an Indigenous made Quadcopter with successful flights.

## SOCIETIES

2014 NAIST Cricket Club

2013 Student Placement Cell

2012 Photography Club