

# Ridhwan Luthra



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## Career Objectives

Develop innovative solutions to real world problems using AI. Work with interesting people on interesting projects. Help in making the world a better place.

## Education

B.tech	Cluster Innovation centre	2015-present
(IT and mathematical Innovations)		
AISSCE	Delhi Public School	2014
AISSE	Delhi Public School	2012

## Projects

1. obstacle identification using 3d camera.
2. SLAM
3. machine learning to predict off-normal conditions of power plant.
4. Line following robot.
5. Home automation system.
6. Manipulator kinematics.
7. building rube goldberg machine.

## Training and Internship

- Internship
  - AI and robotics developer
    - Motion Planning
    - Localisation
    - Mapping using rtab
- Training
  - Self-Driving Car Nanodegree, Udacity
  - Machine Learning, Coursera
  - AI for Robotics, Udacity

## Research Publication

**Generalisation of the game of Sprouts:** Paper being preped for publication

## Technical Skills

Languages/Packages	<b>Python</b> , EMBEDDED C, <b>ROS</b> , Matlab, Mathematica, R, c++, XML, PHP, Django, MongoDB, Sklearn, Pandas, numpy, scipy
Technical Skills	<b>Machine learning, Robotics</b> Web Scraping, L <sup>A</sup> T <sub>E</sub> X, Robot Designing (CorelDraw), laser Cutting, Multiprocessing(Python)
Operating system	LINUX, MICROSOFT WINDOWS <b>Preferred:</b> ubuntu 16.10 with i3wm shell scripting, automation
Embedded Systems	ARDUINO, RASPBERRY PI, BeagleBone, AVR Micro controllers

## Soft Skills

1. Leadership
2. Adversity Management
3. Collaboration
4. Change Management
5. Empathy

## Extra Curricular Activities

- Head Organiser for Freshmen orientation
- Neuro-Linguistic Programming Coach and Master Practitioner

## Co-Curricular Activities

1. **Convener, Autonomi** - Robotics Society
2. **HR Manager, HashInclude** - Computer Science Society
3. Conducted Workshop on Firebird for college Professors
4. Conducted Workshops on Robotics for Students
5. **Founder and Learning systems Developer** at Adzippy

## Extra 2

- Item 1
- Item 2
- Item 3
- Item 4
- Item 5[?]
- Item 6. Like item 3 in the single column list before, this item is particularly long to wrap over several lines.

## References

<i>Category 1</i>	<i>Category 2</i>	<i>All the rest &amp; some more</i>
<ul style="list-style-type: none"><li>○ Person 1</li><li>○ Person 2</li><li>○ Person 3</li></ul>	<p>Amongst others:</p> <ul style="list-style-type: none"><li>○ Person 1, and</li><li>○ Person 2</li></ul> <p>(more upon request)</p>	<p><i>That person, and those also (all available upon request).</i></p>