

## EDUCATION

### Bachelors in Electronics and Communication Engineering

Image Processing, Big Data and Artificial Intelligence  
Institute of Engineering, Thapathali Campus

2015 - Present

### +2 Science

Physics  
St. Xavier's College

2015

### SLC

Occidental Public School

2013

## AFFILIATIONS

### Rotaract Club of Kathmandu

Editor (2017/18 and 2018/19)

2016 – Present

### Robotics and Automation Center, Thapathali Campus

Core Member (2018/19)

2016 – 2019

### Nepal Scouts

2009 – 2013

## HOBBIES

Brainstorming and working on programming challenges, Music production, video editing, 3D Modeling and Animation, Socializing

## SKILLS AND QUALIFICATIONS

- Intermediate knowledge of C, C++ and Python programming language
- Intermediate knowledge of image processing (OpenCV)
- Oriented in Microsoft Office Applications such as MS Word, MS PowerPoint and MS Excel
- Basic audio, photo and video editing and 3D modeling skills

## RELEVANT LINKS

LinkedIn:

<https://www.linkedin.com/in/abhijan-wasti-85978a145/>

GitHub:

<https://www.github.com/blurryface5178>

Facebook:

<https://www.facebook.com/abhijan.wasti>

## PREVIOUS PROJECTS

### Line Following Bot (2017)

- A robot that detects a given set of waypoints via infrared sensors and traverses the path
- Focus on basic robot AI algorithm for path traversal
- 

### Maze Solving Bot (2018-19)

- A robot that detects nearby obstacles at every node, finds and traverses along a valid path and based on various use cases from onboard camera, performs specific actions and reaches the destination
- Focus on visual sensory data acquisition and processing as well as communication between onboard chips
- 

### Aerial View Based Guidance System (2018-19)

- A two vehicle system comprising of an unmanned aerial vehicle (UAV) and an unmanned ground vehicle (UGV) capable of utilizing an aerial image of a terrain to find and travel along a valid route using graph theory algorithms
- Focus on software portion of project; image acquisition, preprocessing, pathfinding, UAV-UGV communication and UGV traversal AI

## AWARDS AND CERTIFICATE

- 2<sup>nd</sup> Runner Up at International Robotics Challenge (IRC) at Techfest, IIT Bombay (2017)
- Participated in Bajaj Hackathon, 2017 at Techfest, IIT Bombay (2017)
- 1<sup>st</sup> Position in Code Debugging at Tech Bihani 3.0 organized by PACE, ACE (2016)
- 1<sup>st</sup> Position in Creative Code at Golden Jubilee Celebration of Thapathali Campus (2015)
- Participated in International Space Apps Challenge organized by ICIMOD, Mercy Corps, NEA and RAN in collaboration with Young Innovations Pvt. Ltd. And KLL (2017)
- Participated in Robotics Week, 2017 organized by Robotics and Automation Center, Thapathali Campus
- Awarded Batch Highest Scoring Student in School (2013)

## ONLINE COURSES

[Machine Learning \(Stanford Online\)](#)

[Computer Vision - Object Tracking with OpenCV and Python](#)

[Neural Networks and Deep Learning](#)

[Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization](#)

[Logistic Regression with Python and Numpy](#)