

ABHIJAN WASTI

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IMAGING SCIENTIST AND ENGINEER

Imaging science student with experience in embedded systems design and machine learning
Published author in "Innovation in Engineering Education"

Computer Vision | Image Processing | Embedded Systems | AI | ML | ANN
Python | C | C++ | Octave | PyTorch | Javascript | HTML | CSS

Education

Rochester Institute of Technology - Full Scholarship

**Rochester, NY
2021 - Present**

MS in Imaging Science

- Subjects: Fourier Methods for Imaging, Radiometry, Human Visual Systems

Institute of Engineering, Tribhuvan University - Full Scholarship

**Kathmandu, Nepal
2019**

BE in Electronics and Communication Engineering

- Capstone Project: Aerial View-Based Guidance System
- Electives: Image Processing, Big Data and Artificial Intelligence

Relevant Experience

Graduate Teaching Assistant – Rochester Institute of Technology

Aug 2021 – Present

- Guiding laboratory classes of over 100 students, grading lab reports

Machine Learning Intern – FuseMachines Inc.

May 2021 – Aug 2021

- Learned the basic machine learning pipeline and deep learning architectures
- EDA, data pre-processing, model building, API creation, deployment

Embedded Systems Developer – Machineer Technology Pvt. Ltd.

Apr 2021 – Jul 2021

- Developed and built embedded systems for private and commercial use
- Worked on multiple control and measurement systems

Board Member - Rotaract Club of Kathmandu

2018 - 2021

- Revived the publication of monthly bulletin and published for 2 years
- Collaborated with over 120 clubs from all over the world to publish 22 bulletins as chief editor
- Organized meetings, took minutes, distributed notice and information as secretary

Aerial View-Based Guidance System

Supervised by Prof. Dinesh Baniya Khsatri, Tribhuvan University

2018 - 2019

- Proposed a two-vehicle system capable of utilizing an aerial image of terrain to aid navigation of a ground vehicle using graph theory algorithm
- Focus on image processing, pathfinding, communication and ground vehicle AI

Class Representative - Tribhuvan University

2015 - 2019

- Coordinated with the professors to schedule classes and assessments, issued announcements on behalf of the professor, facilitated the distribution of study materials

President - Robotics and Automation Center

2017 - 2018

- Supervised the day-to-day operations, represented the club in all major decisions, managed funds worth \$3000, organized training and competitions

Awards and Certificates

- 3rd Position in International Robotics Challenge (IRC) at Techfest, IIT Bombay (2017)
- 1st Position in Code Debugging at Tech Bihani 3.0, PACE, ACE (2016)
- 1st Position in Creative Code at Golden Jubilee Celebration, Tribhuvan University (2015)

