

ABHIJAN WASTI

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AR/VR ENGINEER

Imaging scientist with interest in AR/VR technologies and eye-tracking

AR | VR | Eye Tracking | Image Processing | ML
Python | C | C++ | Blender | Unity

Education

Rochester Institute of Technology - Full Scholarship
MS in Imaging Science

Rochester, NY
Present

- Fourier Methods for Imaging, Radiometry, Human Visual Systems
- Advanced Eye Tracking, Procedural Shading, Image Processing and Computer Vision

Institute of Engineering, Tribhuvan University - Full Scholarship
BE in Electronics and Communication Engineering

Kathmandu, Nepal
2019

- Image Processing and Pattern Recognition, Computer Graphics, Artificial Intelligence
- Capstone Project: Aerial View-Based Guidance System
 - Introduced a semi-autonomous two-vehicle navigation system capable of guiding the ground vehicle with dynamic feed from the aerial vehicle

Online Courses: [Machine Learning](#), [Computer Vision](#), [Neural Network and Deep Learning](#), [Improving Deep Neural Networks](#)

Work Experience

Graduate Teaching Assistant – Rochester Institute of Technology

Aug 2021 – Present

- Completed responsibilities as TA for “Imaging Science Fundamentals” with an 87% pass rate

Machine Learning Intern – FuseMachines Inc.

May 2021 – Aug 2021

- Reviewed and implemented techniques in exploratory data analysis and data visualization
- Reviewed and implemented machine learning pipeline and deep learning architecture
- Created APIs to deploy ML models and used online coding platforms (kaggle, google colab, git)

Embedded Systems Developer – Machineer Technology Pvt. Ltd.

Apr 2021 – Aug 2021

- Designed and implemented a transformer monitoring system for the urban electricity grid
- Developed a prototype for an autonomous artificial environment control system for solar desiccator
- Developed a prototype for a low-cost sanitary pad dispenser
- Developed a low-cost GPS-less technique for geolocation suitable for a business district

Other Projects ([Github](#))

Halftoning - created a python library that supports halftoning, dithering, and removal of halftoning in images

Space Invaders - implemented the classic arcade Space Invaders using Processing

Colora - built a prototype application that uses image processing to create vector style edits

MazeBall - implemented gyroscope controlled 3-D android maze game with a rolling ball using Unity

Several Audio-Visual Experiences - created multiple projects combining 3D modeling, lighting and shading, rendering, sound design, and compositing using software such as Blender, Adobe After Effects, Adobe Premiere Pro, DaVinci Resolve, etc. ([link here](#))

Leadership

Board Member - Rotaract Club of Kathmandu

2018 - 2021

- Collaborated with over 120 clubs from all over the world to publish 22 bulletins as chief editor

President - Robotics and Automation Center

2017 - 2018

- Led the club and managed funds worth \$3000, organized training and competitions for 30+ students