Bibek Poudel

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Education

New York University   New York, USA
Bachelor of Science in Computer Engineering. GPA [3.91/4]   August 2022 – May 2026
Minor in Robotics
NYUAD Engineering Fellowship (2024-2025): Selected by the NYUAD Engineering Department for a one-year fellowship to study at NYU in New York, focusing on advanced coursework and collaborative research.

Valmiki Shiksha Sadan   Chitwan, Nepal
Science. GPA [3.85/4]   July 2018 - March 2021

Experience

Cleveland Clinic Abu Dhabi   Abu Dhabi, UAE
Research Assistant   January 2024 – October 2024

- Spearheaded the design and development of a highly adaptable phantom prototype compatible with any 3D printing system, enhancing research flexibility and reproducibility.
- Authored a quality control manual to streamline project processes, aligning with industry standards and ensuring consistency in workflow.
- Explored certification pathways to obtain project accreditation, contributing to compliance and recognition of quality standards.

NYUAD Plastic Recycling Research Lab   Abu Dhabi, UAE
Fabrication and Operations Assistant   August 2023- August 2024

- Supported course delivery by assisting faculty with lectures and hands-on training on plastic recycling methods and equipment handling.
- Maintained operational efficiency by managing workshop inventory, conducting routine equipment maintenance, and scheduling necessary repairs.
- Guided students in safely operating machinery such as extruders and injection molding machines, promoting adherence to lab protocols and industry best practices.

The Vijay Lab   Abu Dhabi, UAE
Student Research Assistant   August 2023- August 2024

- Designed a handheld bio-printer prototype for precise bio-ink application, utilizing CAD modeling for component design and 3D printing for fabrication.
- Combined hands-on assembly with detailed component integration to deliver a functional and precise bio-printing tool, advancing the lab's research capabilities.

Karkhana Samuha   Kathmandu, Nepal
Learning Resource Design Intern   June 2023-August 2023

- Developed interactive learning resources tailored for creative coding education, enhancing accessibility and engagement for students.
- Conducted pilot sessions to validate resource effectiveness, gathering valuable feedback to refine teaching tools.
- Collaborated with experienced educators to co-facilitate workshops, equipping teachers with skills to implement creative coding in the classroom.

Skills

Programming Language: C, C++, MATLAB, Python

Software Packages: Solidworks, Arduino, KiCad, ROS2, OpenCV, Linux, Pytorch

Hardware: Arduino, Esp32, M5stack, Microbit, ARM Cortex, 3d printing, CNC machining,

Language: English, and Nepali