

# Krishna Dhakal

## Personal Info

07436687014

krishna@dhakal.co.uk

Glasgow, G40 4BT

## Personal Profile

A motivated and technically adept Aero-Mechanical Engineering student at the university of Strathclyde with hand on experience in design, fabrication and analysis. Has a strong foundation in CAD/CAM software, programming and workshop practices, demonstrated through personal, university and extracurricular projects. Proven ability to apply theoretical concepts to practical challenges, from composite material fabrication to CNC toolpath generation. Eager to apply technical skills and problem solving abilities in an engineering role.

## Projects

### HPFStrath - Human Powered Aircraft Project

- Conducted research and sourced components for the aircraft's propulsion system.
- Designed and modelled aerodynamic components for the aircraft using SolidWorks.
- Reverse-engineered a physical bicycle crankshaft, creating a precise SolidWorks model to serve as the driver for the pulley-propeller system.
- Gained hands-on experience with composite materials by fabricating a carbon fibre keyed shaft for effective power transfer between the pulley and propeller.

### RC Buggy – Design, Manufacture & Redesign

- Manufactured mechanical components for a functional RC buggy using workshop machinery, including a lathe, pillar drill, and milling machine.
- Digitised the physical assembly by creating a complete 3D model in SolidWorks, which served as a baseline for a comprehensive redesign of the exterior shell and chassis.
- Developed a complete EdgeCAM toolpath for the CNC machining of the redesigned SolidWorks chassis.

### Personal Portfolio Website

- Independently designed, coded, and launched a personal portfolio website from scratch using HTML and CSS to showcase technical projects and skills. The live site available at: dhakal.co.uk.

## Technical Skills

- CAD/CAM software: Solidworks (proficient), EdgeCAM (Basic)
- Programming and Analysis: MATLAB (Intermediate), Python, HTML, CSS
- Workshop and Fabrication: Lathe Operation, Milling, Pillar Drill, Carbon Fibre Composites
- Interpersonal Skills:** Clear communicator, team player, able to multitask effectively in high-pressure settings

## Education

### BEng (Hons) Aero-Mechanical Engineering

#### University of Strathclyde, Glasgow

2024-Present (Expected graduation: 2028)

- Relevant coursework: Heat & Flow (Thermodynamics and Fluids), Mechanics, Engineering Materials, Engineering Design

### SQA Highers

#### St. Mungo's Academy

2019-2024

- Achieved Highers in English (A), Maths (A), Physics (A), Chemistry (A), Engineering Science (A)

## Work Experience

### Customer Service Assistant

**Kantipur Restaurant**, East Kilbride

October 2023 – Present

- Managed high-volume, time-sensitive tasks in a fast-paced environment, ensuring accuracy and adherence to strict deadlines.
- Applied problem-solving skills to effectively resolve client issues, ensuring customer satisfaction and maintaining positive relationships.
- Demonstrated meticulous attention to detail and accuracy in handling transactions and maintaining precise records.

## Additional Information

- Full UK Driving License
- Fluent in: Hindi, Urdu, Nepali