

Sayam Gautam

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Driven engineering graduate with over two years of experience supporting energy and building projects through effective design, testing, analysis and trades coordination. Master's degree in professional mechanical engineering. Proficient in Python, SolidEdge, Ansys, Creo Parametric and HyperMesh software. Looking to leverage solid education and experience to obtain an entry-level mechanical engineering position.

Work Experience

Junior Design Engineer

June 2021 - Oct 2021

ETAmax Engineering, Adelaide

- Junior design engineer for filament winding systems.
- 3D design work (Creo), drafting of 2D drawings, analytical work by FEA(Strand7).
- hands-on manufacturing of filament winding machines, and prototype development and manufacture for composite products.
- Design and manufacture of a filament winding machine from scratch using solidworks.
- Analysis and manufacture of a wind mast of a yacht using strand7.

Energy Systems Engineer Intern

May 2020 — Aug 2020

Certified Energy, Sydney

- Assessed the energy efficiency of buildings in BERS Pro and BASIX software.
- Collected data on various types of buildings and worked to improve energy storage systems.
- Managed the efficient use of energy in building, manufacturing and processing systems.
- Developed a strong understanding of statutory and regulatory requirements for energy usage and sustainability concerns in Australia.

Intern

Oct 2016 — Oct 2017

Nepal Academy of Science and Technology (NAST), Nepal

- Analysed the efficiency of hydro-electric power systems.
- Designed and tested hydro turbines.
- Assisted management and researchers with projects.

Consultant

Oct 2016 — Mar 2017

District Energy and Climate Planning, Nepal

- Supported field assessment, collected data and performed data analysis.
- Prepared written technical reports of research.
- Submitted reports and presented results of the research to local stakeholders in rural Nepal.

Assistant Engineer

June 2016 — Aug 2016

Thapa Mould and Die, Nepal

- Arranged meetings between professional engineers and management.

- Liaised with management, engineers and third-party clients and stakeholders.
- Performed stock checks and quality assurance.
- Verified documentation and reports to ensure accurate and timely information.

Store Manager

Aug 2018-jan 2021

Dominos Bondi Junction, Bondi Junction, Sydney

- Managed a team of 10 people, as well as the store's budget for labour and food.
- Organised work flows and daily schedules.

Education

Master of Professional Engineering (Mechanical)

University of Technology Sydney (UTS), Sydney, 2020

Bachelor of Engineering (Mechanical)

NMAM Institute of Technology, Nitte, Karnataka, India, 2016

- Represented the college in CAD/CAM design competitions at the state level.

Research Projects:

- Performed finite element analysis of a cracked artificial hip joint and obtained optimum stress values during movement activities.
- Designed and optimised a delta robot in MATLAB and Simulink for operation of an Ableton Push 2.
- Controlled a mobile robot in localisation uncertainty via visual trajectory.
- Handwritten Digit recognition using Keras and Tensorflow via Convolution Neural Networks.
- Developed a Messenger and Reddit bot in Python.

Certifications

Certificate in Python 3

Code Academy Online, 2020

Professional Memberships

Member, AIMS (Association for Interaction of Mechanical Engineering Students), 2012-2016

Member, GIHE Alumni Association, 2012

Extra-Curricular Activities

Club Member

Grey Matter Quiz Club, NMAM Institute of Technology, 2012-2016

- Updated general knowledge, analytical abilities and quantitative reasoning skills.
- Participated in quiz competitions.

Club Member

Rotaract Club, Chandragiri, 2016-2018

- Exchanged ideas with leaders in the community, developed leadership and professional skills and took action through community service.

Skills Summary

- | | |
|---------------|-----------------------|
| • Python | • Creo Parametric |
| • Java Script | • HyperMesh |
| • CSS | • MS Office |
| • SolidEdge | • Technical reporting |
| • Ansys | • Strand 7 |
| | • Cad Wind |

Languages

English, Nepali, Hindi

Hobbies and Interests

Team sports (College football), Organising technical festivals and events

Referees

Available on request