Giswin Vincent

Mechanical Engineer

Adaptable, versatile and result oriented mechanical engineer from Monash University with experience in manufacturing environment. Excellent problem-solving skills and ability to work with constraints. Competent in design, electronics, and software programming. Able to work well both independently and in a team. I am looking for a challenging position to allow me to gain industry experience.

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giswin

EDUCATION

Monash University (March 2019 - December 2020)
Master of Engineering
Mechanical Engineering

Vishwajyoti College of Engineering and Technology (July 2013 - April 2017)
Bachelor of Technology
Mechanical Engineering

SKILLS

Engineering Design
Solidworks, CREO Parametric,MATLAB , ANSYS, ABAQUS

General softwares
MS Office, Arduino IDE, Android Studio, Raspbian

Soft Skills
Problem-solving, Quick learner

Programming Skill
Python, VBA, Database

LANGUAGES

English
Very Fluent

Malayalam
Native Tongue

AWARDS

Robotics Championship 2016 April 2016
IIT Madras

Participated in the final round of the Robotics Championship.

ASTRA Techfest 2015, Palai January 2015
SJCET, Palai

Build a robot platform able to complete multi-terrain track and won first place.

INTERESTS AND HOBBIES

Experimenting with Arduino programming and prototyping

Automating tasks to reduce wasting time and energy on mundane tasks

Machine learning

Automation

WORK ELIGIBILITY

Full work rights in Australia until March 2025 with current visa; able to attain PR within 2 years

WORK EXPERIENCE

Southern Dental Industries, Bayswater (March 2021 - Present)
Machine Operator

- Increased powder bottling output by identifying bottlenecks.
- Preparation and maintenance of records in compliance with GMP principles.
- Troubleshooting of machinery problems as they arise to reduce machinery downtime and increase line efficiency.
- Trained machine operators in changeovers, machine setups, record keeping, and daily operations.

iBuild Building Solutions, Mulgrave (August 2021 - November 2021)
Intern

- Developed automation script to scrape details from websites.
- Evaluated thermal and electrical requirements for home office pods.
- 3D models were designed using Revit and rendered using Lumion.
- Learned invoicing process, architectural designing, sourcing of builders, selection process, etc.

PROJECTS

Biodegradable Environmental Monitoring Sensors (March 2020 - December 2020)

- Conducted deep research on biodegradable material replacements and designs for environmental monitoring and sensing.
- A new material adaptation model according to biodegradability, environmental impact, sustainability, and material/operational properties were done.
- Materials were suggested according to the properties using Ansys Granta EduPack and Ashby's material selection method.

Rodent Hoarding Apparatus (March 2020 - July 2020)

- The aim was to design an apparatus to measure the amount of food hoarded by individual mice without human intervention for the department of physiology at Monash University.
- A concept design was made in which mouse was identified using injectable RFID tags and their movements were monitored using open-source video analysing software.

High-Altitude Balloon (January 2015 - September 2015)

- Designed and build a payload for high altitude photography and acquire data during flight.
- Multiple fail-safes were built into the electronics of the payload to maximize the chance of recovery.
- Budget was the main constraint in the project; every aspect of the project were chosen to reduce the overall budget (cost at completion = USD 120).

Friction modelling of a free spinning wheel (November 2016 - March 2017)

- Designed apparatus to model friction on a free spinning bicycle wheel and derived mathematical equation representing the system.
- Data acquisition system was made using Arduino and sensors.
- Friction equations were derived using theoretical models and were compared against actual data.

REFERENCES

Available upon request