



Velusamy Vithusha

Mechanical Engineering

PROFESSIONAL

Associate Member of IESL (Institution of Engineers, Sri Lanka)

PERSONAL SKILLS

Computer literacy
Time Management
Effective Communicator
Risk management and negotiation
Future Focused
Leadership and Initiative

CONTACT DETAILS

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LinkedIn: Velusamy vithusha

PERSONAL DETAILS

Date of Birth: 03/09/1996

Address: No: 19/2a, Pansala Road, Norwood.

NIC No: 199674701763

Civil Status: Single

Nationality: Sri Lankan

PROFILE SUMMARY

- Actively looking for a challenging Engineering role in an academic environment, to contribute towards the organizational objectives and grow my career together.
- Projected to be Graduated with Second upper honors (GPA 3.57) with more than one-year teaching experience in Thermo dynamic, Machine designing, HVAC, Engineering drawing, and Fluid mechanics.
- Successfully conceptualized, designed, simulated and manufactured a low-cost prototype for efficiently converting waste plastic in to crude oil and hydro carbon gases

KEY SKILLS AND COMPETENCIES

- Strategize, evaluate and formulate a problem in to feasible solutions
- Modeling, simulation and the modern design
- Modern renewable energy technology
- Advanced knowledge of software tools for design and simulation (Lab View, Ansys & Solid works software)
- Multi lingual in English, Tamil and Sinhala
- Capable of working independently or with a team

PROJECT

Undergraduate individual Research Project based on Energy technology. Successfully modelled, simulated, designed and fabricated the prototype for "**Converting the Waste Plastic in to Fuel**", by using pyrolysis method. Managed to manufacture the prototype for industrial manufacturing, within the allocated time and cost by leading the project.

- Environmental sustainability through reduction of pollution by eliminating waste plastic
- crude oil, char and flammable hydro carbon gases
- Portable, easy to handle, easy to repair and maintain
- Low cost [SLR 18,000] and locally producible in developing countries
- Research project report to be published in IESL

Project details

- Mass of plastic = 1 kg
- Total production of fuel = 0.7 liters (0.539 kg)
- Total char production = 0.201 kg
- Amount of gas formed = 0.174 kg

WORK EXPERIENCE

➤ Currently working as an Assistant lecturer

Mechanical Department
South eastern university of Sri Lanka

LANGUAGE

English: Professional working proficiency

Sinhala: Professional working proficiency

Tamil: Native

INTERESTS

Production and Manufacturing Engineering,
Energy Technology
Machine dynamics
Renewable and power system
Thermo dynamics

NON-RELATED REFERENCE

Prof. Muzathik A M

Professor in Mechanical Engineering
Department of Mechanical Engineering
Faculty of Engineering
South Eastern University of Sri Lanka
Tel: +94-0771524740
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Dr.U Farook

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Area Covered.

- Setting up of laboratory sheets and tutorial work
- Moderating the lab sheets and designing new lab sessions
- Conducting laboratory sessions
- Preparing laboratory timetables

EMPLOYER : South eastern university of Sri Lanka
Position : Temporary Instructor
Duration : 24th January 2022 – 23th January 2023

Area Covered.

- Conducting laboratory sessions
- Train students in mechanical workshops and techniques
- Conducting Workshop viva for students

EMPLOYER : Sri Lanka Port Authority
Position : Trainee Mechanical Engineer
Duration : 05th March 2019 – 24th May 2019

Area Covered.

- Supervision of welding works, fitting and foundry
- Experienced with lathe, milling, drilling, and shaping machine in the machine.
- Inspection for sand mold casting and steel fabrication works.
Experienced in problem solving based on Gantry crane working issue

EMPLOYER : State Engineering Corporation of Sri Lanka
Position : Trainee Mechanical Engineer
Duration : 05th March 2019 – 24th May 2019

Area Covered

- Experienced in problem solving based on Maintenance in building services
- Experienced with central air conditioning system and fire protection system
- Supervision of HVAC System, water plant Treatment, generators and elevators maintenance work.

ACADEMIC QUALIFICATIONS

- 1. B.Sc. Eng. (Hons) - Mechanical Engineering** 2016 - 2021
South Eastern University of Sri Lanka (SEUSL)
- 2. Diploma in English Language** 2015
British Way English Academy
- 3. G.C.E. Advanced Level (A/L)-Physical Science Stream 2013- 2015**
Highland's central college -Hatton

EXTRA-CURRICULER ACTIVITY

School Level

- Prefect of the St'Gabrials Girls' College -2012
- President of School Mathematical Society-2012
- Won the first prize in Zonal level mathematical competition -2011

University Level

- Announcer of E-Ablaze (Faculty Day) program 2019
- Champion of Inter Faculty Badminton Competition 2017
- Committee member of Mechanical Engineering Society of Southeastern University of Sri Lanka

I do here by declare that above particulars of information and fact status are true, correct, and complete to the best of my knowledge and belief.

V.Vithusha

