# D.M.H. HIRAN SANDESH RAJASURIYA

**Webpage** 

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in / Profiles

Github

A Mechanical Engineering Graduate interested in vehicle power-train development. Recently, been working on renewable energy applications for sustainable transportation.

Combustion and Environment

Research Interests: Alternative Fuels

Renewable Energy

Mechanical Design

#### **EDUCATION**

### University of Moratuwa, Sri Lanka

B.Sc. Eng. in Mechanical Engineering (First Class Honors)

Cumulative GPA: 3.8/4.2

Dean's List in Semesters: 4,7,8

## Nalanda College, Colombo 10, Sri Lanka

G.C.E. Advanced Level (Physical Science Stream)

(Top 1% out of  $\sim$ 35000, Nationwide university entrance examination)

Jan 2015 - Dec 2017 4As / Z-score - 2.0865

Dec 2018 - July 2023

### WORK EXPERIENCE

#### Research Engineer - Mechanical

Department of Materials and Mechanical Technology, University of Sri Jayewardenepura

Aug 2023 - Present

Sri Lanka

## Trainee Mechanical Engineer

Diesel and Motor Engineering (PLC)

Mar 2022 - Aug 2022

Sri Lanka

# PROJECTS/ RESEARCH/ PUBLICATIONS

Renewable Energy Access for Conversion of Tuk-tuks (REACT)

Aug 2023 - Present

Research Project funded by Innovate UK, collaboration with University of Surrey (UK), Alta Vision Solar (PVT) Ltd (SL).

D.M.H.H.S. Rajasuriya, T.P.D. Pieris, N.P. Dassanayaka, W.R. de Mel, H.R. Jayetileke, O.A.P.C. Oruthota, and W.H.P. Sampath; Assessing the Viability of Renewable Energy Integration in Battery Swappable Conversion Kits for Tuk-tuks in Sri Lanka, The 8th International Conference on Green Energy and Applications (ICGEA) 2024, Singapore. (Conference presentation, Paper accepted for publication)

D.M.H.H.S. Rajasuriya, T.P.D. Pieris, N.P. Dassanayaka, W.R. de Mel, H.R. Jayetileke, O.A.P.C. Oruthota, and W.H.P. Sampath; A Feasibility Study of Renewable Energy Access for Battery Swappable Conversion Kit for Three-Wheelers in Sri Lanka, International Conference on Innovation and Emerging Technologies (ICIET) 2023, University of Sri Jayewardenepura, Sri Lanka.

(Extended Abstract, Conference presentation)

Conference procedings **(** 

Investigating Vehicle Yaw Stability with Active Steering and Torque Vectoring Aug 2022 - Present Self Initiated Undergraduate Research

R.P. Herath, **D.M.H.H.S. Rajasuriya**, N.P. Dassanayaka, U.L.S. Perera, J.R. Gamage, L.U. Subasinghe; Vehicle Yaw Stability Control System with Torque Vectoring and Active Front Steering, Moratuwa Engineering Research Conference 2024 (MERCon 2024), University of Moratuwa, Sri Lanka. (Under review)

Undergraduate Course Projects/ Simulations

Repository **(1)** 



### NOTABLE ACHIEVEMENTS

Winner - Best Presentation in Automotive Track (Graduate) at ICIET 2023, organised by Faculty of Technology, University of Sri Jayewardenepura (SL)

Nov 2023

Winner - The Migara Ratnatunga Trust Awards on Industrial Training for University Undergraduates - 2021 / 2022 (Field - Mechanical Engineering) , presented by Institution of Engineers Sri Lanka (IESL)

Aug 2023

#### SKILLS

Programming Languages: C++, MATLAB, LATEX

Software: SolidWorks, SolidEdge, Technomatrix Plant Simulation

Languages: English (IELTS Academic 7.5/9), Sinhala (Native)

# VOLUNTEER EXPERIENCE / LEADERSHIP

Treasurer - Rotaract Club of Alumni of University of Moratuwa

Jul 2023 - Present Handling financial assests of the organisation. Budgeting and preparation of all financial statements.

Director of Finance - Rotaract Club of University of Moratuwa

Management of large-scale project budgets. Preparation of all financial statements.

Jul 2021 - June 2022

Co-Director Environmental Services - Rotaract Club of University of Moratuwa Ull 2020 - June 2021 Coordinating and managing projects carried out under the Environmental Services avenue.

Project Zooxanthellae replantation of corals.

Article 🏶

**Examiner/ Laboratory Instructor/ Translator** - Sasip Institute, Sri Lanka Dec 2017 - Sep 2018 Worked at the Sasip-Assignment-Centre which conducts mock examinations and provides laboratory facilities to conduct Physics practicals for G.C.E. Advanced Level students.

<sup>\*</sup>References available upon request