

# ASHAN THARIDU WANASINGHE

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GOOGLE SCHOLAR: <https://scholar.google.com/citations?user=C4RiHpQAAAAJ>

## EDUCATION

2015 NOVEMBER – 2020 JANUARY	<b>B.Sc. in Mechanical Engineering Hons.</b> CGPA: 3.57/4.20 (SECOND UPPER) DEAN'S LIST – Semester 2, 7 and 8	<b>UNIVERSITY OF MORATUWA</b> SRI LANKA
2002 JANUARY – 2014 AUGUST	Primary and Secondary Education GCE A/Level – 3A (National) GCE O/Level – 7A* 2B (Cambridge)	LYCEUM INT. SCHOOL - WATTALA SRI LANKA

## RELATED WORK EXPERIENCE

2020 JAN – PRESENT	<b>Research Student</b> Department of Mechanical Engineering, University of Moratuwa	<b>CSSM LABORATORY,</b>
2018 JUN – 2018 DEC	<b>Intern – AutoLab</b> On the job intern at Linea NMC	<b>MAS ACTIVE TRADING,</b> MALWANA, SRI LANKA

## PROFESSIONAL AFFILIATIONS

2016 – PRESENT	Student Affiliate Member	Institution of Mechanical Engineers
2019 – PRESENT	Student Member	The Institution of Engineers Sri Lanka
2020 – PRESENT	Student Member	Institute of Electrical and Electronics Engineers

## SELECTED PROJECTS

2018 DECEMBER – PRESENT	Development of a soft orthotic device for the suppression of hand tremors Final Year Research/Design Project for B.Sc. Eng. (Module: ME4202). Continued post graduation
2019 AUGUST – 2020 JANUARY	Reducing waste and improving workplace safety at D&S Pet Care Industrial Engineering Project for B.Sc. Eng. (Module: ME4072)
2019 FEBRUARY – 2019 JULY	Design and Analysis of a MEMS based transdermal drug delivery system Micro/Nano Electro Mechanical Systems Project for B.Sc. Eng. (Module: ME4310)
2019 FEBRUARY – 2019 JULY	Project Proposal for Protected housing agriculture Industrial Project Management Project for B.Sc. Eng. (Module: ME4452)

## AWARDS AND SCHOLARSHIPS

- 2019 Runner -Up – Speak Out For Engineering Southern Asia Region (Organised by IMechE)
- 2019 Champion – Speak Out For Engineering Sri Lanka (Organised by IMechE)
- 2016/2019 Dean's List – Semester 2, 7, 8 (B.Sc. Engineering Hons.)
- 2015 Mahapola Higher Education Merit Scholarship (B.Sc. Engineering Hons.)

## COURSES AND PROGRAMMES

- 2017 DECEMBER - 2018 JUNE Motor Vehicle Technology 2 (Ceylon German Technical Training Institute)
- 2017 JUNE – 2018 JUNE Unilever Supply Chain Talent Programme (Unilever Sri Lanka)
- 2016 JULY- 2016 AUGUST Global Citizen Volunteer Exchange Programme (AIESEC in UPM, Malaysia)

## INTERESTS AND EXTRACURRICULAR ACTIVITIES

Academic interests: Robotics, Soft robotics, Biomechanics

Extracurricular interests:

- Scrabble: University and School Captain, School Coloursman, Member of Sri Lanka Scrabble League
- Member of AIESEC in University of Moratuwa – Team Manager position
- Member of University of Moratuwa Mechanical Engineers Society
- Compering and Public Speaking
- Article Writing
- Volunteering

## PUBLICATIONS

- 2020 MAY W. V. I. Awantha, **A. T. Wanasinghe**, A. G. P. Kavindya, A. L. Kulasekera and D. S. Chathuranga, "**A Novel Soft Glove for Hand Tremor Suppression: Evaluation of Layer Jamming Actuator Placement**," *2020 3rd IEEE International Conference on Soft Robotics (RoboSoft)*, New Haven, CT, USA, 2020, pp. 440-445, doi: 10.1109/RoboSoft48309.2020.9115994.
- 2020 JULY P. Kavindya, W. V. I. Awantha, **A. T. Wanasinghe**, A. L. Kulasekera, D. S. Chathuranga and B. Senanayake, "**Evaluation of Hand Tremor Frequency Among Patients in Sri Lanka using a Soft Glove**," *2020 Moratuwa Engineering Research Conference (MERCon)*, Moratuwa, Sri Lanka, 2020, pp. 301-306, doi: 10.1109/MERCon50084.2020.9185382.

- 2020 JULY K.N.M. Perera, W.V.I. Awantha, **A.T. Wanasinghe**, H.M.D.P. Herath, S.S.H.G. Paththinige, L. Ekanayaka, Y.W.R. Amarasinghe, "**Design and Analysis of a MEMS Based Transdermal Drug Delivery System**," *2020 Moratuwa Engineering Research Conference (MERCon)*, Moratuwa, Sri Lanka, 2020, pp. 596-601, doi: 10.1109/MERCon50084.2020.9185328.
- 2020 OCT J.I. Dewapura, P.S. Hemachandra, T. Dananjaya, W.V.I. Awantha, **A.T. Wanasinghe**, A.L. Kulasekera, D. S. Chathuranga and V.P.C. Dassanayake, "**Design and Development of a Novel Bio-inspired Worm-type Soft Robot for In-pipe Locomotion**," *2020 20th International Conference on Control, Automation and Systems (ICCAS)*, Busan, South Korea, 2020, to be published.
- 2020 OCT W. V. I. Awantha, **A. T. Wanasinghe**, P. Kavindya, A. L. Kulasekera, D. S. Chathuranga and B. Senanayake, "**A Tremor Assessment Tool Using an IMU Based Soft Glove**," IROS 2020 Workshop on *Robots for Health and Elderly Care (RoboHEC20)*, Las Vegas, NV, USA, 2020, under review.
- 2020 OCT **A. T. Wanasinghe**, W. V. I. Awantha, P. Kavindya, A. L. Kulasekera, D. S. Chathuranga and B. Senanayake, "**Towards a Soft Hand Tremor Suppression Device for Primary Care**," *IROS 2020 Workshop on Robot-Assisted Training for Primary Care (RoPat 2020)*, Las Vegas, NV, USA, 2020, under review.

## REFERENCES

To be provided on request