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Industrial Training and Career Guidance Unit,

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Educational Qualifications

- PhD. - University of Peradenya, Sri Lanka, 2018
- M.Eng. - University of Peradenya, 2003, Electrical and Electronic Engineering
- B.Sc.Eng. - University of Peradeniya, Sri Lanka, 1996, Electrical and Electronic Engineering

Professional Qualifications:

- Corporate Member of Institute of Engineers Sri Lanka (M - 7356)
- Member – Building Services Engineers – IESL - 2021/2022 - Low Voltage Power Distribution and Day Lighting and Artificial Lighting
- Vice President – Sustainable Consumption and Production Forum - Sri Lanka (From October, 2022).

Research Interests:

- Formal verification of Distributed control systems
- Hardware in the loop (HiL) testing of Mechatronics systems
- Micro controller-based control of DC motors
- Solar PV systems

Employment Record:

* Senior Lecturer, Industrial Training and Career Guidance Unit,

Faculty of Engineering, University of Peradeniya,

(May 2022 – To date).

• Senior Lecturer, Faculty of Applied Science, Department of Science and Technology, Uva Wellassa University (March 2019 – May 2022).

• Director – Technical and Environmental Services (2016 – 2021).

• Visiting Lecturer, SLIIT, ICBT. (2015 – 2016).

• Manager Engineering - Ceylon Chocolates Limited, Pandiwatta, Kundasale. (2002 – 2015).

• Assistant Manager Engineering - Ceylon Chocolates Limited, Pandiwatta, Kundasale. (2000 – 2002).

• Production Engineering Executive - Ceylon Chocolates Limited, Pandiwatta, Kundasale. (1997 – 2000).

• Management Trainee - Ceylon Chocolates Limited, Pandiwatta, Kundasale, (1996 – 1997).

Publications:

Journals

- 1) Integrating runtime validation and hardware-in-the-loop (HiL) testing with V & V in complex hybrid systems
SD Dewasurendra, AC Vidanapathirana, SG Abeyratne
Journal of the National Science Foundation of Sri Lanka 47 (4) - 2019

Conferences

- 1) Implementation of combined cooling heating and power (CCHP) system at Biyagama export processing zone in Sri Lanka: A case study
D.S. Jayathilaka and A.C. Vidanapathirana
6th International Research Conference of Uva Wellassa University, IRCUWU 2022, 28th-29th July 2022 at Uva Wellassa University of Sri Lanka, Badulla, Sri Lanka.
- 2) Remote monitoring and controlling of an automobile system using NodeMCU
D.M.K.C. Dissanayaka, A.C. Vidanapathirana and T. Thevathayarajh

6th International Research Conference of Uva Wellassa University, IRCUWU 2022, 28th-29th July 2022 at Uva Wellassa University of Sri Lanka, Badulla, Sri Lanka.

- 3) Development of wind turbine system for electric and hybrid cart
S.A.V. Gayashan, A.C. Vidanapathirana, R.M.T.C.B. Ekanayake and T. Thevathayarajh

6th International Research Conference of Uva Wellassa University, IRCUWU 2022, 28th-29th July 2022 at Uva Wellassa University of Sri Lanka, Badulla, Sri Lanka.
- 4) Design of micro-scale wind turbine for low-speed applications
W.P.J.M. Warnakula, A.C. Vidanapathirana, R.M.T.C.B. Ekanayake and S.S.D.D.B. Senanayake.

6th International Research Conference of Uva Wellassa University, IRCUWU 2022, 28th-29th July 2022 at Uva Wellassa University of Sri Lanka, Badulla, Sri Lanka.
- 5) Model in the loop testing of complex reactive systems
A Vidanapathirana, SD Dewasurendra, SG Abeyaratne
2013 IEEE 8th International Conference on Industrial and Information Systems
- 6) Statechart based modeling and controller implementation of complex reactive systems
AC Vidanapathirana, SD Dewasurendra, SG Abeyaratne
2011 6th International Conference on Industrial and Information Systems, 493-498
- 7) Development of an elevator prototype for multi-disciplinary research in complex reactive systems
SD Dewasurendra, A Vidanapathirana, SG Abeyaratne
The Institution of Engineers: Colombo, Annual Transactions 1 (Part B) – 2011
8. “Development of an elevator prototype for multi-disciplinary research in complex reactive systems”

PURSe 2010. S. Devapriya Dewasurendra, Sunil G. Abayaratne, Ajith Vidanapathirana
- 9) Contouring with DC Motors-a Practical Experience
VW Bandara, AC Vidanapathirana, SG Abeyaratne
First International Conference on Industrial and Information Systems, 474-479 – 2004.