



Prasanna Illankoon

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Academic Credentials

- 2020-04-20, PhD, Operations and Maintenance Engineering, Luleå University of Technology, Sweden
Thesis: Soft Issues of Industry 4.0: A Study on Human-Machine Interactions
- 2010-06-22, MBA, Management of Technology, University of Moratuwa, Sri Lanka
Thesis: Exploring Implementation of Lean Practices in a Customized Product Manufacturing Environment
- 2002-11-25, BSc, Production Engineering, University of Peradeniya, Sri Lanka
Industrial Project: Design of an Automatic Billets Transferring System

Other Expertise

- 2013-10-21, Certified compliance auditor, Internal Compliance Audit Program (ICAP), Avery Dennison
- 2010-12-07, TPM Practitioner, Institute of Lean Management, Japanese Institute of Plant Maintenance
- 2009-04-10, Enterprise LeanSigma (ELS) Train the Trainer, Avery Dennison, China

Language Skills

- Sinhala: Native
- English: Proficient user
- Swedish: Basic user

Current Employment

- 2004-present: Part-time Consultant, Swedish Work Science Academy (Sri Lanka Branch)
Conducting ergonomics assessments and workshops. Have worked for more than 35 factories, including MAS Holdings (the largest apparel exporter in Sri Lanka).

Previous Work Experience

- 2017-03-01—2020-04-30, PhD Student / Lecturer, Luleå University of Technology, Sweden
Research on the collaboration of human and Intelligent Maintenance Systems.
Teaching on the human factors in maintenance.
- 2010 -2016, Manager, Quality Assurance and Compliance, Avery Dennison RBIS, Sri Lanka
Leading and collaborating cross-functional project teams of the organization, customers, and suppliers.
Deployment of the Processes – Problem Solving – People strategy to improve quality assurance.
Responsible for compliance certifications ISO 9001, ISO 14001, OHSAS 18001, and FSC CoC.
- 2006-2009, Industrial Engineer / South Asia Operations Analyst, Avery Dennison RBIS, Sri Lanka
Facilitating Operational Excellence through the application of Enterprise LeanSigma in the South Asia region.
Assisting the South Asia operational leadership for strategic projects such as footprint optimization, business case development and operations expansion.
- 2003-2005, Productivity Manager, National Productivity Improvement Program, JAAF, Sri Lanka
Assessing and benchmarking the financial and manufacturing capabilities of client factories.
Developing roadmaps for lean transformation, coaching to implement new production methods, redesigning layouts and reengineering manual work to improve efficiency by 10- 50% at client factories.
- 2002-2003, Research Engineer, Faculty of Engineering, University of Peradeniya, Sri Lanka
Setting up a lab to conduct ergonomics experiments in collaboration with the apparel industry.
Study on the psychological effects on production lines, and introduction of the “Boredom Indicator”.

Research funding and grants

- 2018-2019, Context-aware Decision Support for Operative Aircraft Maintenance: Saab and Vinnova, Sweden
- 2017-2020, Asset Management, Risk & Human Factors: Luleå Järnvägstekniskt Centrum (JVTC), Sweden
- 2003-2004, Ergonomics improvements in apparel industry: University of Peradeniya & MAS Holdings, Sri Lanka

Research Output

- Total number of publications 22
 - Peer-reviewed scientific articles 15
 - Publications intended for professional communities 2
 - Theses 2
 - ICT Software 3
- Methods developed
 - Method to quantify industrial boredom “Boredom Indicator” (Illankoon & Manathunge, 2008)
 - Method to quantify “Detectability” in FMEA (Illankoon et al., 2016a)
 - Characteristics matrix to trace cognitive strategy of machine behaviour (Illankoon et al., 2019a)
 - Theoretical model for collaborative human and machine awareness (Illankoon, 2020d)

Research supervision and leadership experience

- 2020, Main Supervisor of one, and Co-Supervisor of two Master’s theses of Department of Manufacturing and Industrial Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka.
- 2020, Main Supervisor, Two Bachelor’s Projects at University of Vocational Technology, Sri Lanka.
- 2018, Team Member, Context-aware Decision Support for Operative Aircraft Maintenance project, Luleå University of Technology, Sweden.
- 2006-2012, Problem Solving Coach, Enterprise-Lean-Sigma events, Avery Dennison RBIS South Asia.
- 2005-2006, Productivity consultant for five client factories, Joint apparel Association Forum (JAAF), Sri Lanka.
- 2002-2003, Project Engineer, Engineering Design Centre, University of Peradeniya, Sri Lanka, Ergonomics improvement project of 6 MAS holdings factories, Sri Lanka.
- 2002-2003, Project Engineer, Department of Mechanical Engineering, University of Peradeniya, Setting-up of an Ergonomics testing facility in collaboration with the appeal industry.

Teaching merits

- 2020, Completion of Qualifying Course for University Lecturer (Pedagogy) and Program Driven Course Development (CDIO-Conceive, Design, Implement, and Operate), Luleå University of Technology, Sweden
- 2017-2020, Course developer and Lecturer, Course on “Human Factors for Safety in Maintenance”, Master’s Program in Operations and Maintenance Engineering, Luleå University of Technology, Sweden.
- 2013-2016, Visiting Lecturer in Work Study and Ergonomics, and Quality Assurance, University of Vocational Technology, Sri Lanka.
- 2004-Present, Resource person, Ergonomics workshops and training, Work Science Academy, Sri Lanka.
- 2002-2004, Instructor in Mechanical Engineering, Engineering Design, and Computer Aided Designing, Department of Mechanical Engineering, University of Peradeniya, Sri Lanka.

Awards and honours

- 2008-Present, Member, International Society for Productivity and Quality Research (ISPQR).

Other key academic merits

- 2020, Member, Organizing committee, Super Chair of EasyChair, International Congress and Workshop on Industrial AI 2020, Luleå University of Technology.
- 2017-Present, Reviewer for IEEE Access, Cognition-Technology & Work, Int. J of Quality in Maintenance Engineering, Int. J. of Human Factors and Ergonomics, Safety - Open Access Journal from MDPI, Int. J. of Sustainable Transportation, Human-centric Computing and Information Sciences.

Scientific and societal impact

- 2015-Present, Member, Industrial Liaison Committee, University of Vocational Technology, Sri Lanka.
- 2006-Present, Advisory Council Member: Sri Lanka College of Technologies (SLCoTs).
- 2006, Technical Committee Member, Japan-Sri Lanka College of technology Project.

Other merits

- 2013-2016, As the Quality Assurance Manager, winning the 2nd best site for quality culture at Avery Dennison.
- 2013-2016, 30% annual reduction of customer complaints throughout four years at Avery Dennison.
- 2012, Automating production batching to meet 12% material saving - Avery Dennison sustainability project.
- Associate Member - Institution of Engineers Sri Lanka (IESL)