

JOHN NEUMAN GAYAN SAMARASINGHE

BEng (Hons), MIET

Lead Mechatronic Engineer | Automation Engineer | Project Manager

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PROFESSIONAL PROFILE

A data driven and results oriented Mechatronic Engineer with more than 7 years of experience in R&D and Manufacturing. Demonstrated a strong background in Mechatronics, control systems and programming backed up with lean best practices in designing machinery from end-to-end. A confident team leader and collaborative team member in delivering projects on-time with the highest quality.

PROFESSIONAL EXPERIENCE

Jun 2022 – Present Senior Automation Engineer | Mindox Techno Pte Ltd, SL/SG

- Manage and execute engineering projects for designing and building semiconductor equipment while managing engineering teams split across Colombo, Sri Lanka and Coimbatore, India.
- Drive engineering projects to meet customer requirements, cost restrictions and deadlines.

Jan 2021 – May 2022 Business Analyst (2021 Jan), Senior Business Analyst (2021 Apr),

Assistant Manager – Special Projects (2022 Apr) | MAS Active Trading Pvt. Ltd., SL

- Oversee and Drive performance in 5 manufacturing [cut & sew] plants to elevate productivity through production engineering, automation and lean initiatives.
- Generate business insights to elevate the skills, process optimization and overall profitability of the business.
- Manage and drive teams and projects to support business objectives to optimizing the manufacturing process as a young lead (Strategic Projects, Profit Protection Projects and Futureproofing Projects [McKinsey driven])
- Drive operational objectives for Manufacturing inclusive of budgets, LRP and short-term strategies.

Nov 2016 – Jan 2021 Engineer | twinery (- MAS Innovation Pvt. Ltd.), SL

- Worked with latest technologies in analytics, sensors, robotics and vision in a collaborative atmosphere to bring to life a number of physical and software automated solutions used in factories of MAS.
- Managed and designed innovative machinery and software solutions to automate sewing and non-sewing processes to drive efficiency and productivity in the manufacturing space.
- Designed and implemented data analytics and management tools with more than 1,000 transactions /week.
- Scoped and implemented new technology to bring business benefits to manufacturing.

Sep 2015 – Nov 2016 Assistant Engineer | Renuka Agri Foods PLC, Wathupitiwala BOI Zone, SL

- Managed technical teams and ensured operation of all manufacturing machines across all Group Factories.
- Designed and managed the re-construction of a milk production line to improve plant production output.
- Designed and managed a number of key plant projects for process and safety improvements.
- Worked towards overhauling the plant to meet quality standards and obtained FDA certification.

TECHNICAL SKILL AND EXPERTISE

Further information (inclusive of portfolio) can be found on iamjohnnysam.com

- Developing, and debugging with embedded electronic systems in automation
 - Circuit Design, Micro-controllers, PLC's, electrical logic control, Robotic & vision applications
- Programming: C, C++, Python, Java 6.0, LabVIEW, Ladder, Verilog, Ladder Logic, MATLAB
- Machine Learning & Data Analytics: Python + Microsoft Power Platform, Google Data Studio
- Solid Modelling with Geometric Dimensioning and Tolerance: AutoCAD, SolidWorks
- Designing and constructing electromechanical systems with integrated mechanics and control

PROFESSIONAL QUALIFICATIONS

June 2021 MSc in Electronics and Automation | The University of Moratuwa, SL

- Expected completion in December 2020 with First Class degree
- Thesis: Hand Activity Recognition using a Wearable Smart Glove aimed designing an affordable wearable glove capable of identifying activities in industrial production lines for optimization.

June 2015 BEng (Hons) Mechatronic Engineering | The University of Manchester, UK

- Awarded First Class degree with honours and Certification of industrial experience
- Project: Line Following Buggy (2013), for navigating a non-continuous track. Awarded most Innovative
- Project: Planar Wheeled Omnidot (2015) for demonstrating active control by balancing on a cylinder.
- Published: "Modernising an old lift by PLC" | The Orb Magazine (14th October, 2014)

OTHER EXPERIENCE

- Hornet Representative, Occasional Assistant | Hornet, Manchester, UK *Sep 2014 – Jun 2015*
- Trainee Mechatronic Engineer | Kelani Cables PLC, SL *Jul 2013 – Jul 2014*
- Software Developer | Shaw Wallace Ceylon, SL *Jul 2012 – Aug 2012*

SPECIALIZED CERTIFICATIONS

- Machine Learning A-Z & Deep Learning A-Z | SuperDataScience [Udemy] *May 2020*
- Neural Networks and Deep learning | deeplearning [Coursera] *September 2019*
- Machine Learning | Stanford University [Couseara] *November 2017*
- Textile Technology for the Garment Industry | University of Moratuwa, SL *April 2017*
- Siemens HMI and SCADA | Nikini Automation PVT LTD, SL *February 2016*
- Siemens S7-300 PLC and STEP 7 | Nikini Automation PVT LTD, SL *October 2015*
- DC Motor Control Technology & Motion Control | Maxon Motors, UK *April 2015*

HOBBIES AND EXTRA-CURRICULAR ACTIVITIES

- Design & build innovative electromechanical systems (<http://iamjohnnysam.com>).
- Junior Prefect (2009 – 2010) and Senior Prefect (2010 – 2011) of Gateway College Colombo
- Competitive Swimming (1998 – Present) – National level
 - Swimming Captain (2010 – 2011) of Gateway College Colombo
 - Awarded Gateway College Merit (2010) and Colours (2011) for Swimming

