Susheel Sriram Ananthan

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EDUCATION

National Institute of Technology, Tiruchirappalli, *Tamil Nadu, India*
Bachelors of Technology in Instrumentation and Control Engineering Engineering *July. 2017 – May. 2021*
CGPA: 7.56/10.0

Birla Public School, Doha, *Doha, Qatar*
Class XII *Apr. 2016 – Mar. 2017*
Percentage: 86.0%

Birla Public School, Doha, *Doha, Qatar*
Class X *Apr. 2014 – Mar. 2015*
CGPA: 9.0/10.0

EXPERIENCE

TEAL Hosur , *Tamil Nadu, India*
Automation Internship Trainee *Dec. 2019 – Jan. 2020*

- The internship involved comprehending various procedures involved in Turnkey assembly.
- Types and selection procedures of sensors used in assembly, communication protocols used to interface PLC and the field devices, Remote Terminal Units(I-O Links), Data acquisition from PLC using cloud platform, servo motor control, fault inspection using camera through image processing, Risk assessment and Risk Reduction Process as per ISO 12100 Standard.
- Designed control panel wiring diagrams with the help of my guide and assisted employees when requested.

TNPL Karur, *Tamil Nadu, India*
In-Plant Trainee *Dec. 2018 – Jan. 2019*

- The training involved comprehending various stages and technology involved in production of paper from processing wood chips or bagasse to production of paper of desired GSM from stock using Paper Machines.
- Visit to thermal power plant with a total production capacity of 80MW.

PROJECTS

Control of Rotary Double Inverted Pendulum
Guide: Dr. D. Ezhilarasi, NIT Tiruchirappalli *Jan. 2021 – May. 2021*

- The project incorporates stabilization control of the Rotational Double Inverted Pendulum system.
- The objective is to determine the control law to the motor's output torque such that the double inverted pendulum motion will be stabilized about a vertical axis and position the rotary arm to a commanded angular position.
- In this project, multi-PID controller, the linear-quadratic regulator (LQR), Internal Model Control (IMC), and the Neural Network Controller were designed, simulated using MATLAB and analyzed the controller performance.

Mask Detection based Access Terminal
Guide: Personal Project *May. 2020 – June. 2020*

- Designed a touch free access terminal, which provides access to the user based on mask detection.
- Trained the model using TensorFlow with MobileNetV2 deep neural network architecture to predict if the face landmarks in Region of Interest (ROI) is 'Mask' or 'No Mask' in real-time.
- Transmitted the classifier output using PySerial library which transmits the classifier output computed to Arduino IDE, to perform desired control action(open/close) on the terminal using Arduino micro-controller.

PROFESSIONAL DEVELOPMENT

Automation System Engineer Training
IPCS Chennai, Tamil Nadu, India *May. 2019 – July. 2019*

- Underwent 180 hours Automation System Engineer training in the field of Industrial Automation.
- Seven major theoretical and practical sessions imparted were Programmable Logic Controllers (PLC), Supervisory Control and Data Acquisition (SCADA), Human Machine Interface (HMI), Control panel wiring, Variable Frequency Drive (VFD) and Field Instrumentation.

SKILLS & OTHERS

Software Tools: Excel, MATLAB, RS Logix 500, Wonderware Intouch, Tableau10
Programming: Excellent in C. Proficient in Python and SQL.
Certifications: Automation System Engineer by TÜV Rheinland
Interests: Strategy Games, Music, Adventure Sports
Positions of responsibility:

- Quality Assurance Coordinator , Pragyan (Annual Techno-managerial fest of NITT), 2018-19
- Marketing Manager, Sensors (Department symposium at NITT), 2018-19
- Quality Management Coordinator , Festember (Annual Cultural fest of NITT), 2017-18
- Volunteer, National Service Scheme (NSS), NIT Tiruchirappalli, 2017-18