

Vishala Marasinghe

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Looking for a new opportunity to challenge myself in the fields related to industrial operation management, robotics and automation or product design and development

Profile summary

I am a fresh industrial engineering graduate (M.Eng.). Being an enthusiastic, self-motivated and responsible person, I am open and adaptable to all challenges. I have the ability to work well both in team and individually with 'can do' attitude. I am recognized as being creative and motivated to constantly develop my skills and grow professionally.

Work experience

May - Oct
2016

Nikini Automation Systems (Pvt) Ltd, Sri Lanka - Internship
Engineering Trainee/ Teaching assistant

- Participated for the practical training courses on followings
 - Basic pneumatics & Electro pneumatics
 - Siemens S7-300 PLC & Step 7
 - Logo! - Logic Controller
 - Introduction to HMI and SCADA
 - Introduction to Siemens S7-1200 PLC
- Assist on Programing Robotino (a mobile robot system made by Festo Didactic) for several applications

May - Oct
2015

Electro Serv (Pvt) Ltd., Sri Lanka - Internship
Engineering Trainee

- Categorized and listed pneumatics and related product based on their specifications
- Pneumatics and electro-pneumatics circuit design
- Involved for the VFD (variable frequency drive) controlling activities

Education

2017-2019

Asian Institute of Technology, Thailand

Master degree(M.Sc) in Industrial and Manufacturing Engineering

- Additive manufacturing (FDM) robot design (project)
- Product design and development based on customer needs (project)
- Machine learning (SVM) for color classification of license plates' internal character (project)
- Analyzing a supplier's decision under a combination of a long-term and penalty contracts (thesis)

2013-2017

Asian Institute of Technology, Thailand

Bachelor degree(B.Sc) in Mechatronics Engineering(second class)

- Development of a Self-Balancing bicycle robot remotely controlled by a smart phone
- 6-DoF robotic arm controlled by an android interface (GUI)
- Stair-climbing, line following robot
- Automated car parking control system- PLC/ SCADA
- Wind turbine- CAD
- Stopwatch, speaker(amplifier)
- License plate boundary detection - image processing, OpenCV C++

2013-2014

National Institute of Technology, Sri Lanka

Advanced Certificate in English

Interests

Languages

Sinhala: Native

English: Fluent

French, Tamil, Thai: Intermediate

Hobbies / Extracurricular Activities

Sports: Badminton, Karate, Chess

Western music (Piano)

Volunteered at student union, AIT

Volunteering at Embark

Member of Buddhist Society, Devi Balika Vidyalaya

Key Skills and Competences

Technical skills

Programming Languages: Java, C++, C, Python, Matlab, Simulink, G-code, Arduino, PLC programming (Ladder diagrams)
CAD Design: AutoCAD, Solidworks, SIEMANS UG NX10
HMI & Scada/ GUI: TIA Portal, SIMATIC manger, android app. (Android studio, MIT app inventor)
Image processing: Python, Visual studio
Analytical skills: SPSS (statistical), MS Excel
Computer: Office 365, Linux (Ubuntu), Photoshop, Movie maker, Latex

Areas of Competence

Electrical, electronic, electro-mechanical, pneumatic and hydraulic circuit design
Micro-controller, PLC programming
CNC machining
HMI/SCADA, GUI designing
Automated control systems design
Image processing and pattern recognition
CAD/CAM
Additive manufacturing (3D printing)
Lean, TQM, Six sigma concepts
Operational model optimization and management

Awards and Scholarships

AIT fellowship for post graduate studies (M.Sc.)
Full scholarship for the stream of Physical Science (USJP- University of Sri Jayewardenepura, Sri Lanka)
Awards from BoC (Bank of Ceylon), NSB, EPF for outstanding performance in scholarship examination, grade 5

Personal Details

Date of Birth : 30.05.1994
Marital Status : Single
Gender : Female
Nationality : Sri Lankan
Religion : Buddhist
School Attended : Devi Balika Vidyalaya, Colombo 8
Home Address : 154, Duwa Road, Beddagana, Pitakotte, Sri Lanka

References

1. Prof. Manukid Parnichkun
AIT, Ext 5229
Email: manukid@ait.ac.th
2. Dr. Huynh Trung Luong
E-mail: luong@ait.asia