MUHAMMAD MOBIDUL ISLAM

https://github.com/mashuk03

① https://mashuk03.github.io/

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EDUCATION

(4th Year 1st Semester)

Ph.D. Candidate, Electrical Engineering,

North Carolina A&T State University Greensboro, NC

RESEARCH AREA • Machine vision

• Deep Learning

• Autonomous Systems

SKILLS

• Python

• C#

• C/C++

• MATLAB

• LINUX

Android

• Robotic Operating Systems

• Deep Learning

Embedded Systems

EXPERIENCE

August 2018 - Present

Research Assistant

NC A&T SU, Greensboro, NC

- Machine vision application for the autonomous vehicle.
- Pedestrian, bicycle, traffic signs, etc. detected by deep learning algorithms, and the NCDOT project of Vehicle Traffic Safety uses these detection algorithms.
- Research on implementation of sensor (LiDAR, camera) integration for the SAE project.

Jan 2015- Jan 2018

Sr. Electrical Engineer

Stitching Bangladesh Accord Foundation, Bangladesh

- Inspected around 500 factories that are conducted under the NFPA 70, NFPA 70E, and BS standards.
- Review more than 300 Single Line Diagrams that provide safe machine installation procedures and utility cost minimization.

Jan 2014- Jan 2015

Sr. Software Engineer

SAMSUNG R&D Institute Bangladesh Ltd

- Work with boot loader setup and firmware configuration for Samsung devices that provide a secure environment for the firmware of 50 models of SAMSUNG devices.
- Create bridge binary and Roll-back prevention software for Samsung devices that prevent 3rd party model tempering.

Feb 2013- Jan 2014

Industrial Surveyor

Bureau Veritas (Bangladesh) Private Ltd

• Inspected around 50 factories that are conducted under the NFPA 70, NFPA 70E, and BS standards.

July 2010- Feb 2013

Project Engineer (Design)

Peninsula Se-master B2B Project, Bangladesh

 Developed a low-cost Navigational Light control panel with ATmega 128, and some ships use that as a test basis.

June 2009- June 2010

Asst. Engineer

IICT, BUET, Bangladesh

• Developed prototype for a standalone vending machine with ATmega 128 microcontroller for prepaid electric metering system and published a paper on that work.

AWARDS

- Outstanding presenter at the Next-Generation Transportation Systems-2020.
- Got 2nd prize (Group) of the SAE AutoDrive Challenge in 2019.

PUBLICATIONS

PRESENTATIONS • NCDOT Summit 2020 • IEEE SMC 2020 • NGTSC 2020

- Connected Autonomous Vehicles: State of Practice. IEEE SMC, 2021. (Under review)
- Pedestrian Detection for Autonomous Cars: Inference Fusion of Deep Neural Networks. ITS, 2021. (Under review)
- Single Shot Pedestrian Detection with Body Parts Semantics, IEEE ITSC,2021. (Under review)
- A Pedestrian Detection and Tracking Framework for Autonomous Cars: Efficient Fusion of Camera and LiDAR Data. IEEE SMC, 2021. (Under review)
- Pedestrian Detection for Autonomous Cars: Occlusion Handling by Classifying Body Parts. IEEE SMC, 2020.