

MD ABDUL BASET SARKER

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EDUCATION

Clarkson University, Potsdam, New York

Jan 2021- Current

PhD, Electrical and Computer Engineering

- Relevant Coursework: Deep Learning, Advance Deep Learning, Machine Learning, Data Mining, Big data

Institute of Science and Technology, National University, Bangladesh

Dec 2012

Bachelors in Electronics and Communication Engineering(ECE)

- Relevant Coursework: C, C++, Electronic Circuit.

PROFESSIONAL EXPERIENCE

Clarkson University, Potsdam, New York (Research Assistant)

Jan 2021-Current

- I am currently employed as a research assistant at Clarkson University. I am working on Machine Vision and artificial intelligence, for example, Vision-enabled prosthetic hand, Vision-enabled exoskeleton, Underwater microplastic detection, and a Faceware capture system.

Advance Chemical Industries Ltd, Bangladesh

Senior Software Engineer

Oct 2019 - Jan 2021

- Managing a team of 4 engineers handling multiple projects in different technologies, including Python, PHP, Django, Laravel, Express.
- Created open-street map-based solution for field management software that saved thousands of dollars for Google Maps.
- Human resource (Time attendance-based system) for factory workers. and Shrimp production management software
- Provide high-level architecture guidance, develop specifications patterns, and create strategic technical designs for small-scope projects within the team. Analyze, design, code, debug, test, and modify new software or enhancements while considering software abilities.

PRAN-RFL Group, Bangladesh

Software engineer

Jul 2016 - Sep 2019

- Developed a handling design, development, and troubleshooting of Applications using Python, PHP, Java and C++, Android
- Developed Production Management software for 26 factories and over 5000 products.
- A dynamic Quality Control software for 15 food factories for over 2000 products.
- Worked on an Embedded Linux (Yocto) platform for Vision TV R&D.
- Completed application development as per the requirement, scheduled activities, contributed to team meetings, and handled troubleshooting development and production problems.

Aplombtech BD (Sinepulse GmbH), Bangladesh

Embedded system and software engineer

Nov 2014 - Jul 2016

- Developed a handling design, development, and troubleshooting of Applications C and C++
- Inventory management software
- PCB design using EagleCAD, Proteus
- Worked on Smart home solution, MQTT, Bluetooth

SKILLS

- **Programming Languages & Miscellaneous Technologies:** Python, C, C++, PHP, JAVA, MYSQL, Oracle, Laravel, Django, APIs, Git, Bitbucket, AWS, Docker, Jenkins, Tensorflow, Pytorch, Yolo.
- **Tools:** IntelliJ IDE, Visual Studio Code, Eclipse, Raspberry Pi, Jetson Nano, Jetson Xavier, Google Coral Mini

PUBLICATIONS

- MAB. Sarker, J. P. Sola, A. Jones, E. Laing, E. S. Sola, and M. H. Imtiaz, "Vision Controlled Sensorized Prosthetic Hand," presented at the Interdisciplinary Conference on Mechanics, Computers, and Electrics (ICMECE), 2022.
- MAB. Sarker, U. Butt, M. H. Imtiaz, and A. B. Baki, "Automatic Detection of Microplastics in the Aqueous Environment," presented at the IEEE 13th Annual Computing and Communication Workshop and Conference (CCWC), 2023.
- MAB. Sarker, E. Sola-Thomas, C. Jamieson, and M. H. Imtiaz, "Autonomous Movement of Wheelchair by Cameras and YOLOv7," presented at the 3rd International Electronic Conference on Applied Sciences, 2023.