



Sourav Raxit



✉ sraxit@uno.edu

in www.linkedin.com/in/souravraxit

Employment History



- Jun 2022 – Dec 2023  **Graduate Engineering Trainee**, Instrumentations Engineers Limited (Local Business Partner, Emerson)
- Aug 2023 – Ongoing  **Graduate Research Assistant** Department of Computer Science, University of New Orleans

Education







- 2023 – Ongoing  **Ph.D., University of New Orleans** Computer Science.
Research Topic: *Vision Based Localization and Planning, Motion Planning in GPS Denied Environment.*
- 2016 – 2021  **B.Sc. Chittagong University of Engineering and Technology** in Mechatronics and Industrial Engineering.
Thesis title: *A Comprehensive Drug Management System by Segregating Spurious and Substandard Drugs Using Blockchain Technology.*

Research Publications



Conference Proceedings

- 1 R. Ibn Momin, R. K. Das, **Raxit, Sourav**, U. S. Muna, and A. A. Miraj, "Design and fabrication of bengali braille embosser using solenoid," in *2024 IEEE 9th International Conference for Convergence in Technology*, Apr. 2024.
- 2 **Raxit, Sourav**, S. B. Singh, and A. A. Redwan Newaz, "Yolotag: Vision-based robust uav navigation with fiducial markers(accepted)," in *International Symposium on Robot and Human Interactive Communication (RO-MAN) (2024)*, 2024.
- 3 J. Hossain Gourob, **Raxit, Sourav**, and A. Hasan, "A robotic hand: Controlled with vision based hand gesture recognition system," in *2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI)*, 2021, pp. 1–4.  DOI: 10.1109/ACMI53878.2021.9528192.
- 4 **Raxit, Sourav**, S. M. Arman, and S. Banik, "Automated car parking system," in *International Conference on Mechanical Engineering and Renewable Energy 2021 (ICMERE 2021)*, Dec. 2021.
- 5 **Raxit, Sourav**, J. Hossain Gourob, and H. Kabir, "A comprehensive drug management system by segregating spurious and substandard drugs using blockchain technology," in *2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI)*, 2021, pp. 1–5.  DOI: 10.1109/ACMI53878.2021.9528238.

Skills





| | |
|---------------------------|---|
| Languages |  Strong reading, writing and speaking competencies for English, Bangla |
| Coding |  Python, R, \LaTeX |
| Operating System |  ROS1, ROS2, Linux, Windows |
| Simulation Software |  CoppeliaSim, Gazebo, Ansys, Preoteus, Opensim, CARLA |
| Machine Learning Platform |  Tensorflow, PyTorch |
| Development Board |  Arduino, Raspberry Pie, STM32, Jetson. |

Skills (continued)




- Blockchain Technology  Hyperledger Fabric, Ethereum.
- Misc.  Academic research, teaching, training, consultation

Miscellaneous Experience




Awards and Achievements

- 2018  **Runner's Up**, BIT Arena, A robotic footbot competition in North South University.
- 2017  **Runner's Up**, A Robo car race competition arranged by Student's Union in CUET.
- 2016-2021  **Compensatory Scholarship**, Chittagong University of Engineering and Technology (CUET), Chittagong
- 2013,2015  **The Daily Prothom Alo Award**, (GPA-5 Holder in both SSC 2013 and HSC 2015





Certification

- 2022  **Training on Control Valve**. Awarded by Emerson, Singapore
- 2019  **Certified Cyber Security Specialist**. Awarded by Information and Communication Technology Division,Bangladesh
- 2018  **PLC Training for Industrial Automation**. Awarded by Institute of Energy Technology, CUET

Extra-Curricular Activities

- Aug 2019 - Sep 2020  **President**, Robo Mechatronics Association, Bangladesh (RMA), CUET
- Oct 2019-Oct 2020  **Technical Head**, Radio CUET , CUET
- Sep 2019- Nov 2020  **President**, Gazipur District Student's Forum, CUET

Industrial Training

- 2018  (30 Days) S.Alam Cold Rolled Steel LTD
-  (02 Days) Summit Power Ltd
- 2017  (07 Days) Bangladesh Steel Re-Rolling Mills Ltd (BSRM)
- 2016  (02 Days) Nur Mohammad Plastics

References

Prof. Abdullah Al Redwan Newaz
Assistant Professor
University of New Orleans,
Math 345, 2000 Lakeshore Dr, New Orleans, LA.
aredwann@uno.edu

Prof. Tamjidul Hoque
Associate Professor
University of New Orleans,
Math 333, 2000 Lakeshore Dr, New Orleans, LA.
thoque@uno.edu