
Tanjina Piash Proma

Independent University, Bangladesh
School Of Engineering & Computer Science
tanjinaproma@gmail.com
(880)19-1947 1971

Education

2013-2017 Independent University, Bangladesh.
Bachelor of Science in Computer Science.
Major: Computer Science
Minor: Robotics and Intelligent Machine
Thesis: Pill detection using shape, color and printed
text from pill image. [GitHub Link](#)
Supervisor: Dr. Md. Ashraful Amin
CGPA: 3.54 /4.00 [Transcript](#)

Publications

- Md. Zakir Hossan, **Tanjina Piash Proma**, M Ashraful Amin. "Medicine Recognition Using Intrinsic Geometric Property from Pill Image". Pacific Rim International Conference on Artificial Intelligence (PRICAI 2016).
Winner of the Best Presentation Award
- Ishraq Ul Haque, Abul Arabi, Shadat Hossain, **Tanjina Piash Proma**, Nafi Uzzaman, Mahfuz Hannan and Sajjad Hossain. "Vision Based Trajectory Following Robot along with Swarm Robotics". 3rd International Conference on Control, Automation and Robotics (ICCAR 2017)
- Abul Al Arabi, Hasib Ul Sakib, Pranabesh Sarkar, **Tanjina Piash Proma**, Jahedul Anowar, M Ashraful Amin. "Autonomous Rover Navigation using GPS Based Path Planning". Asia Modelling Symposium 2017 (AMS2017)
- **Tanjina Piash Proma**, Md. Zakir Hossan, M Ashraful Amin. "Medicine Recognition from Colors and Text". 3rd International Conference on Graphics and Signal Processing (ICGSP 2019)

PROJECTS

- Raspberry Pi Controlled Image Processing Based Line Follower
November 2016 – December 2016
- Autonomous Rover Navigation using GPS and Image Processing based path planning.
September 2017 –December 2017
- Pill detection using shape, color and printed text from pill image.
July 2016 – July 2017
- Object (Tennis ball) Detection using machine learning framework (Tensorflow) & OpenCV
September 2017 – June 2018

Skills

- Programming Languages: Python, MATLAB and C++
- Software Library: OpenCV, scikit-learn, Keras, PyTorch, Theano, Tensorflow
- Machine Learning Framework: Tensorflow
- Python GUI framework: Tkinter

Work Experience

Jan 2014 – Jun 2016	Teacher's Assistant School of Engineering and Computer Science IUB
July 2016 – Aug 2017	Research Assistant Image Processing & Pattern Recognition Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS, IUB)
Sep 2017 - Dec 2018	Graduate Assistant Image Processing & Machine Learning Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS, IUB)
Oct 2017 - Mar 2018	Research and Development Officer Bitec Software Plot # 189 (3-B),Block –B, Bashundhara R/A Dhaka-1229, Bangladesh.

Jan 2019 – Present	Research Associate Agency Lab, IUB
Jan 2014 – Jun 2016	Teacher's Assistant School of Engineering and Computer Science IUB
July 2016 – Aug 2017	Research Assistant Image Processing & Pattern Recognition Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS, IUB)
Sep 2017 - Dec 2018	Graduate Assistant Image Processing & Machine Learning Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS, IUB)
Oct 2017 - Mar 2018	Research and Development Officer Bitec Software Plot # 189 (3-B), Block –B, Bashundhara R/A Dhaka-1229, Bangladesh.
Jan 2019 – Present	Research Associate Agency Lab, IUB

Scholarship And Awards

- IUB Merit Scholarship
- SECS Award 2016
School of Engineering and Computer Science Award
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- Celebration of success
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Research Interests

Computer Vision and Digital Image processing, Machine Learning, Deep Learning, Artificial Intelligence and Reinforcement Learning.

Conference Presentations

Asia Modelling Symposium 2017 (AMS2017) [Link](#)

- Autonomous Rover Navigation Using GPS Based Path Planning
- "SenseA"-Autism Early Signs and Pre-Aggressive Detector (Substitute Presenter)
- Design and Implementation of Security Patrol Robot Using Android Application (Substitute Presenter)

International Competition

University Rover Challenge (URC 2018), Utah, USA

Artificial Intelligence Lead

University: Independent University, Bangladesh

World Rank: 6th

[URC2018_scores](#)