Tanjina Piash Proma

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School Of Engineering & Computer Science
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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

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

- Pill detection using intrinsic geometric shape from pill image.
  Jan 2016 – Aug 2016
- Raspberry Pi Controlled Image Processing Based Line Follower
  Sep 2016 – December 2016
- Autonomous Rover Navigation using GPS and vision based path planning.
  September 2017 –December 2017
- Object (Tennis ball) Detection using machine learning framework (Tensorflow) & OpenCV
  September 2017 – June 2018
- National Medicine Image Database Creation and Recognizing Medicine from medicine Image.
  January 2019 – Present

Skills

- Programming Languages: Python, MATLAB and C++
- Software Library: OpenCV, scikit-learn, Keras, Pandas, Numpy, Theano, Tensorflow, PyTorch.
- 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)
Oct 2017 - Mar 2018	**Research and Development Officer** Bitec Software Plot # 189 (3-B),Block –B, Bashundhara R/A Dhaka-1229, Bangladesh.

Sep 2017 - Dec 2018	**Graduate Assistant** Image Processing & Machine learning Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS,IUB)
Jan 2019 – Present	**Research Associate** Artificial Intelligence and Cybernetics Lab (AGenCy Lab) IUB.

Scholarship and Awards

- IUB Merit Scholarship
- SECS Award 2016
  School of Engineering and Computer Science Award

Research Interests

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

Conference Presentations

Asia Modelling Symposium 2017 (AMS2017)   Link & Photos
- 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
News