

# Tanjina Piash Proma

**Independent University, Bangladesh**  
**School Of Engineering & Computer Science**  
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**Education:** **Independent University, Bangladesh.** **2013-2017**  
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](#)

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**Publications:** Conference:

1. MEDICINE RECOGNITION USING INTRINSIC GEOMETRIC PROPERTY FROM PILL IMAGE  
M Ashraful Amin, **Tanjina Piash Proma**, Md. Zakir Hossan,  
Pacific Rim International Conference on Artificial Intelligence  
2016  
Winner of the Best Presentation Award
2. VISION BASED TRAJECTORY FOLLOWING ROBOT ALONG WITH SWARM ROBOTICS  
Ishraq Ul Haque, **Tanjina Piash Proma**, Abul Arabi, Shadat Hossain, Nafi Uzzaman, Mahfuz Hannan and Sajjad Hossain.  
3rd International Conference on Control, Automation and Robotics (ICCAR 2017)
3. AUTONOMOUS ROVER NAVIGATION USING GPS BASED PATH PLANNING  
Abul Al Arabi, Hasib Ul Sakib, Pranabesh Sarkar, **Tanjina Piash Proma**, Jahedul Anowar, M Ashraful Amin  
Asia Modelling Symposium 2017 (AMS2017)

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**Projects:**

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

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**Skills:**

Programming Languages: Python, MATLAB and C++  
Software Library: OpenCV, scikit-learn.  
Machine Learning Framework: Tensorflow  
Python GUI framework: Tkinter  
Operating system: Windows, Linux

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<b>Work Experience:</b>	<b>Teacher's Assistant</b>	01/2014– 06/2016
	School of Engineering and Computer Science IUB	
	<b>Research Assistant</b>	07/2016-06/2017
	Image Processing & Pattern Recognition Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS, IUB)	
	<b>Graduate Assistant</b>	07/2017-07/2018
	Image Processing & Machine Learning Supervisor: Dr. Md. Ashraful Amin Associate Professor & Head (SECS, IUB)	
	<b>Research and Technical Content Writer</b>	10/2017-02/2018
	Bitec Software Plot # 189 (3-B),Block –B, Bashundhara R/A Dhaka-1229, Bangladesh.	

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**Research Interests:** Computer Vision and Digital Image processing, Machine Learning, Deep Learning, Artificial Intelligence and Reinforcement Learning.

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**Conference Presentations:**

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

1. Autonomous Rover Navigation Using GPS Based Path Planning
  2. "SenseA"-Autism Early Signs and Pre-Aggressive Detector (Substitute Presenter)
  3. Design and Implementation of Security Patrol Robot Using Android Application (Substitute Presenter)
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**International Competition:**

University Rover Challenge (URC 2018), Utah, USA  
Artificial Intelligence Lead  
University: Independent University, Bangladesh  
World Rank: 6<sup>th</sup>  
[URC2018 scores](#)