Saydul Mursalin Peash

Mechatronics Engineer. ML, DL, WEB Developer

Contact:

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Skills:

- **Robotics** -Kinematics, Kinetics, Trajectory Planning, Motion Planning, Control System Design, Robot Operating System(ROS), SLAM, Simulation(Gazebo).
- **Programming Language** - Python, c++, JAVA
- **Machine Learning, Deep Learning** - Algorithms, Scikit-Learn, TensorFlow, NLTK, YOLO
- **Computer Vision** - OpenCV
- **WEB Development**- Django, Django-REST,Channels, HTML, CSS,JS
- Analytical Programming and problem-solving
- **IOT**- ESP32, ESP32 CAM, ESP8266, Custom IOT real-time Server, IOT based Android Application
- **WEB Development**- Django, Django-REST,Channels, HTML, CSS,JS
- **Microcontroller and Interfacing**- Atmega8, Atmega32, Atmega328p, Arduino boards, ESP boards.
- **Android Development (Basic)**- Flutter, JAVA, Flet
- **Automation**- PLC
- **Computer Aided Design(CAD)**- Fusion360, Solidworks
- **Simulation and Modeling**- Matlab, Simulink, Gazebo.

Professional Profile:

- Highly motivated Mechatronics Engineer with a passion for innovation and a proven ability to excel in fast-paced environments. I bring a diverse skillset to the table, including expertise in Robotics, Machine Learning Algorithms, Computer Vision, Web Development, IoT, server-side development, and Android application development. I am a dedicated and enthusiastic individual with a strong work ethic and a flexible approach to problem-solving. I am eager to leverage my skills and knowledge to contribute to the success of a reputable organization and build a sustainable career that allows me to continuously learn and grow.

Education:

- **BSc in Mechatronics Engineering**
  Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh.
  2019 to 2024
  Relevant Coursework: Mechatronics, Robotics, Artificial Intelligence
  CGPA: 3.08/4.0
- **Higher Secondary Certificate**
  Amrita Lal Dey College, Barisal, Bangladesh
  From 2015-2018
  Relevant Coursework: Science
  GPA: 4.75/5.0

Work Experience:

- **Intern(Firmware Developer)**
  TechnoWren
  Rajshahi - September 2022 to November 2022
- **Industrial Training**
  PRAN Industrial Park, Palash, Narsingdi
  PRAN-RFL Group
  Rajshahi - April 2022 to May 2022

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Activities:

— Joint Technical Secretary(Software), Robotic Society of RUET

— Former Assistant Technical Secretary(Hardware), Robotic Society of RUET

— Executive Member, Innovation Society of RUET

— Former Android Team Member, Durbar Kandari

Projects:

— **Self Balancing Robot** - Arduino, MPU6050, HC05, PID

— **Vehicle detection and license plate recognition system** - YOLO v8, DEEP-Sort, EasyOCR

— **Boitoi(Demo Book Shop)** - Django, Django Channel, HTML,CSS, JS

— **Remote-Controlled Surveillance Mobile Robot Car(With Android Application)** - ESP32 CAM, Arduino, Hc-05, Flutter.

— **Safety Relay(Transformer Monitoring IOT)** - Atmega 8, SIM 800L, ACS 712, Voltage Devider, Bylink.

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— **Content Based Movie Recommender** - Scikit-Learn, NLTK.

— **Water Monitoring system with Custom IOT server and GUI** - ESP 8266, TDS-Meter, DS18B20 sensor, Django, Django Channels, Flet.

— **Line Following Robot** - Arduino, IR sensor, L298N motor driver.

Certifications:

— **Self Driving Cars Specialization**
Coursera (University of Toronto)
Time: 2024

— **Machine Learning**
Coursera (Stanford University)
Time: 2023

— **INTERNET OF THINGS(IOT)**
Bangabandhu Sheikh Mujib hi-tech park
Time: 2023

— **Python For Data Science, Ai and Development**
Coursera(IBM)
Time: 2020

— **Basic Matlab Course**
Matlab Onramp
Time: 2020

Achievements:

— **IRDC Robot Design Challenge 2023(11th)**
SPACE ROBOTICS SOCIETY
Time: 2023

— **IRDC Robot Design Challenge 2021(24th)**
SPACE ROBOTICS SOCIETY
Time: 2021

— **Certificate of Leadership for organizing Tech Mayhem**
Robotic Society of RUET
Time: 2023

Research Projects:

— TinyML based anomaly detection for autonomous Mobile Robot.(Ongoing)(Thesis)

— A Smart Approach to Control a Two-Wheeled Self Balancing Robot Using a PID Controller with Two Degree of Freedom (Paper)
ICMIME 2022,

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References:

- **Siam Bin Islam**
  Founder, CEO.
  Technowren, Rajshahi.
  Mobile: +8801677482932

- **Md Firoz Ali**
  Head
  Department of Mechatronics Engineering
  Rajshahi University of Engineering and Technology
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