





BOATENG ABOAGYE

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OBJECTIVE

Detail-oriented Mechatronics Engineer with expertise in mechanical and electrical engineering, robotics, automation, and control systems. Seeking to apply technical skills in designing innovative mechatronic systems within a dynamic engineering team



EDUCATION

BEng in Mechatronics

Hassan 1st University, Settat, Morocco

SEPTEMBER 2019 – JULY 2023



PROJECT EXPERIENCE

Speed and Precision Control of Autonomous Mobile Robot

Hassan 1st University, Settat, Morocco

APRIL 2023 – JUNE 2023

- Utilized MATLAB, Simulink and Robot Operating System (ROS) for the design and simulation of control algorithms and navigation systems
- Implemented PID controllers for speed and precision control to ensure accurate movement and maneuverability
- Integrated various sensors, such as, LiDAR and Ultrasonic sensors, for obstacle detection and avoidance
- Conducted extensive testing and validation in both simulated and real-world environments to verify the performance and reliability of control system.



SKILLS

- **Mechanical Design:** SolidWorks, AutoCAD
- **Electrical Design:** Circuit Design
- **Electronics:** PCB Design, Electronic circuits
- **Programming:** C/C++, Python, MATLAB
- **Sensors and Actuators:** Selection, Integration, Calibration
- **Control Systems:** PID control, State-space analysis
- **Robotics:** Kinematics, Dynamics, ROS (Robot Operating System)
- **Automation:** PLC Programming (Siemens, Allen-Bradley)
- **Project Management:** Agile, Scrum



ACTIVITIES

Passionate about mechatronics engineering, robotics, automation, and control systems.

Languages: Proficient in English and French, enabling effective communication in multicultural and international environments.

Other projects: Developed [QuikBid.net](https://www.quikbid.net), an innovative comparison e-commerce platform simplifying product and price comparisons across multiple retailers, empowering consumers with informed decision-making.