ABDOUKADIR JABBI

Contact Information:
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Portfolio: https://www.buxin.gm/about-me/

SUMMARY

Passionate and experienced electric vehicle and autonomous systems enthusiast with a robust background in designing, building, and teaching electric vehicles and robotics. Seeking opportunities in self-driving and electric vehicle technology where I can leverage my technical expertise in sustainable transportation and autonomous systems to contribute to cutting-edge projects.

EDUCATION

Bachelor of Science in Computer Science

Sharda University

Relevant coursework:

- Machine Learning & Self-Driving Cars: Bootcamp with Python
- Digital Electronics

WORK EXPERIENCE

CEO of Buxin Electronics

2018 – Present

- **Electric Scooters**: Designed and built electric scooters using 24V and 48V DC motors, batteries, and controllers.
- **Electric Mini-Bus:** Engineered a mini-bus with seating for four passengers, utilizing two brushless DC motors and a 48V battery system.
- **Electric Mini-Tractor:** Developed a mini-tractor powered by a 5HP gear motor, showcasing proficiency in motor selection and vehicle design.

Intern

Sharda University

- **3D Design:** Learned 3D design using Fusion 360.
- **Drone Technology:** Studied and worked with drone technology, including laser machining and circuit design.

TEACHING EXPERIENCE

Robotics and Arduino Instructor

2017 – Present

- Taught robotics and Arduino projects, inspiring students to explore technology and innovation, with a focus on autonomous systems and real-time processing.

PROJECTS

- **Electric Mini-Bus:** Designed and built an electric mini-bus with autonomous features.
- **Real-Time Object Detection and Tracking Robot:** Built a system using Computer Vision techniques like YOLO and TensorFlow, implemented in Python.
- **Mars Rover:** Developed a Mars Rover using Arduino and smartphone integration for object detection.
- **Obstacle Avoidance System:** Created an obstacle avoidance system using Arduino.
- **Bluetooth-Controlled Car:** Developed a smartphone-controlled car with Bluetooth integration.
- **Voice-Controlled Car:** Engineered a voice-activated car.
- **Automated Toll Tax System:** Designed a system for automatic toll tax collection.

ACHIEVEMENTS

- **Global Innovation Competition:** Gold medalist in 2022.
- **Pan-African VEX Robotics Competition:** First position in 2022.
- **University of Sharda India Innovation Competition:** Third position in 2023 and 2024.

VOLUNTEER EXPERIENCE

Electric Car Project

USET University, The Gambia

- Collaborated with USET University to build an electric car, contributing to sustainable transportation initiatives.

Kids in Tech Program

- Taught students Arduino and programming skills, empowering the next generation of innovators.

TECHNICAL SKILLS

Programming Languages:	Embedded Systems:	Software Tools:	Languages	Operating Systems:
- C (75%), Python (50%), Machine Learning: OpenCV, TensorFlow, PyTorch,YOLO (25%), Java (50%), WordPress (100%)	- Arduino's - AVR Microcontrollers	- Fusion 360 - Visual Studio Code - Arduino IDE - pycharm	- English - Arabic	- Windows - Linux