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Professional Statement

A Computer Science senior with a minor in Artificial Intelligence, specializing in autonomous robotics. Skilled in software development and machine learning, with strong adaptability to interdisciplinary roles. Eager to drive innovation in cutting-edge positions.

Education

Florida Atlantic University

BSc Computer Science

Minor: **Artificial Intelligence**

Relevant Courses: Data mining, Machine learning, Intelligent Autonomous Robots, IOT Devices

Florida, USA

May 2025

Technical Skills

- **Programming Languages:** C, C++, Java, Python, JavaScript, HTML, CSS, LaTeX, SQL, NoSQL
- **Embedded Systems and Hardware:** Raspberry Pi, Nvidia Jetson, Texas Instrument MSP, STM32, Arduino
- **Tools/Frameworks:** TensorFlow, Numpy, Pandas, Seaborn, ScikitLearn, Matplotlib, Linux, Git, Bash, version Control, Docker, ROS (Robot Operating System), SQL, NoSQL, Machine Learning, Data Analysis, Autonomous Systems.
- **Computer Vision & Imaging:** OpenCV, YOLO, Convolutional Neural Networks, MATLAB
- **Product Design/Simulation/Build:** SolidWorks, Fusion360, Sheetworks, TinkerCAD, Blender, FDM 3D Printing, CNC, Laser cutter, ANSYS

Projects

Developing Robots for Agricultural applications (Senior Design)

[current]

- **Description:** Developing an autonomous system for harvesting fruits by a 6 DOF robotic manipulator Arm
- **Role:** Developer
- **Technologies:** ROS2, OpenCV, Kortex API, Forward and inverse kinematics

Turtlebot control using hand gestures

November, 2024

- **Description:** This project successfully implemented gesture-based control for the TurtleBot 4 using ROS 2 Humble. The system demonstrated real-time responsiveness, effectively translating recognized gestures into motion commands.
- **Role:** Developer
- **Technologies:** ROS 2, TurtleBot, MediaPipe, OpenCV, Python,
- **Link:** github.com/S-abk/Turtlebot

Extracurricular Activities

- **Board/Advisor** at IEEE FAU Robotics Club – Lead the Design and actualization of a robot for IEEE regional competition.
- **Undergraduate Research Assistant** at FAU – Robotics research and development for Agricultural applications
- **Skilled Researcher** at MPCR – Conduct Research in Machine Perception and Cognitive Robotics