

ALI KANSO

Mechatronics Engineer

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PROFILE

Mechatronics Engineering graduate with hands-on experience in embedded systems, robotics, and autonomous robot development. Built a real-time 2D mapping robot using Raspberry Pi 4, RP-Lidar, and Ubuntu Linux as a senior project. Complementary background in IT infrastructure adds a practical systems-level perspective to hardware integration and deployment.

PROJECTS

2D Mapping Robot — Senior Project

2024

Matn University College · Beirut, Lebanon

Raspberry Pi 4 · RP-Lidar A1 · Ubuntu Linux · Python · ROS

- Designed and built an autonomous robot that scans its environment and generates a real-time 2D occupancy map
- Integrated RP-Lidar A1 for LIDAR-based scanning and sensor fusion on embedded Linux
- Implemented pathfinding algorithms for autonomous obstacle avoidance and navigation
- Developed motor control system using H-Bridge driver circuits and Raspberry Pi GPIO

WORK EXPERIENCE

Junior IT Support Specialist

Feb 2025 — Present

CIS College · Beirut, Lebanon

- Deploy and maintain full IT lab environments — network cabling, switch/router config, Windows 10 setup
- Manage Microsoft 365 Admin Center: accounts, licensing, OneDrive, and Teams
- Diagnose hardware issues including SSD/RAM upgrades, component replacement, and system repairs
- Troubleshoot network connectivity, IP conflicts, routers, access points, and NVR systems

IT Help Desk Intern

Jan 2024 — Jun 2024

Matn University College · Beirut, Lebanon

- First-level IT support for students and faculty — hardware, software, and network setup

EDUCATION

Bachelor of Technology — Mechatronics Engineering

Sep 2021 — Jun 2024

Matn University College · Beirut, Lebanon

SKILLS

Embedded	Raspberry Pi 4 · Arduino · RP-Lidar A1 · Ubuntu Linux · ROS · GPIO · H-Bridge circuits
Programming	Python · C/C++
CAD	AutoCAD · CATIA (3D modeling & mechanical assemblies)
Electronics	Breadboard circuits · Motor control · Power supply circuits · Multimeter & oscilloscope
IT & Systems	Windows 10/11 · Networking · Microsoft 365 · Hardware diagnostics
Languages	Arabic (Native) · English (Fluent)

CERTIFICATIONS

Technical Support Fundamentals
IT Essentials

Google
Cisco