Career Action Plan

Name: Mariam Rabie Elghzaly Track: Microsoft Machine Learning

Top 3 interests for your career	1- Robotics & Embedded Systems 2- Creative Tech & Practical Innovation 3- Auto Motions
Top 3 current skills	1- Creative thinking 2- Planning & Self-Learning Discipline 3- Programming & Problem Solving
Skills to be developed	1- Embedded Systems & Low-Level Programming 2- Applied Machine Learning for Embedded or Real-Time Systems 3- Control Systems & Mechatronics
Career SMART goals	Build and Document an Embedded Robotics Project • Specific: Design a mobile robot that follows a path or avoids obstacles using sensors (IR, ultrasonic) and microcontroller (e.g., Arduino or STM32). • Measurable: Functional prototype + GitHub repo + PDF report. • Achievable: I already have programming + electronics knowledge and a study plan for embedded systems. • Time-bound: Complete in 10 weeks (by October 15, 2025).
Resources	References online courses and self-learning
Action steps	1. Leaning machine learning 2. Complete C programming & basic embedded course 3. Learn and implement PID control on a simple robot 4. Start integrating sensors (IR, ultrasonic) on microcontroller 5. Document all progress on GitHub + write PDF report

Challenges	Limited access to hardware/tools at times Balancing DEPI workload with self-learning
Solutions	use online simulators (TinkerCAD, Proteus) when hardware is unavailable Block weekly time in schedule for robotics study Join online forums (Reddit, Stack Overflow, IEEE groups) for debugging help

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