

# Mohamed Alsaïd El-Hefnawy

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## Electrical Engineering (Control and Automation)

### Summary:

Engineering student at New Mansoura University with a strong interest in Control and Automation systems. Experienced in building and configuring CNC laser machines, including firmware setup and hardware integration. Passionate about developing smart solutions for urban environments and improving technical skills in embedded systems and industrial control.

### Education:

- **Faculty of engineering | Control & Computer Engineering, New Mansoura University**

Started in September 2025.

Predicted Graduating 2030.

### Projects:

- **Smart Desert City | Research New Mansoura University**

- Built a smart-city engineering framework for a sustainable desert environment.
- Integrated power systems and infrastructure solutions tailored for New Mansoura.
- Delivered technical models and strategic plans to academic faculty.

In: Oct 2025

- **CNC Laser Machine | Personal**

- Built a fully functional CNC laser machine from scratch.
- Calibrated motion system for real-world accuracy.
- Solved hardware and wiring issues during setup.
- Configured firmware (GRBL / Fluid NC) for stable performance.

In: Apr 2026

### Skills:

- **Software Skills:**

- AutoCAD

- **Languages Skills:**

- Arabic (Native)
- English (Professional)
- German (Beginner learner)

• **Personal Skills:**

- Researcher
- Teamwork thinker
- Communication Skills