



IEEE AP-S/MTT-S Egypt Section Chapter

Industrial Workshop

"Computerized Numerical Control (CNC) Machining Applied"

Dr. Ahmed Mohamed Hafez, CEO Robota Industries

Date: 11 Dec 2022 | Time: 10:00 AM to 02:00 PM

Technical Workshop Agenda

- Introduction.
- Lathe machine overview/resources.
- Shop safety.
- Coordinate systems.
- Programming language (G-code).
- Auto tool change.
- Milling attachment on the lathe.
- Coffee break/refreshment.
- CNC operation.
- CNC turning.
- Antenna/microwave applications.
- Discussion and questions.

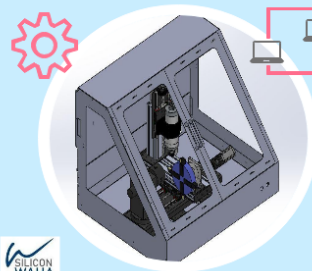
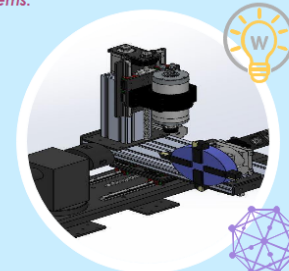


Industrial Workshop "Computerized Numerical Control (CNC) Machining Applied"

Dr. Ahmed Mohamed Hafez
CEO Robota Industries

- * M.Sc. Biomedical Engineering Aberdeen University, Scotland, UK.
- * M.B., Ch.B. Faculty of Medicine, Alexandria university.
- * Areas of expertise: CNC machine manufacturing, industrial automation systems, manufacturing medical artificial joints, PCB production lines, 3D modeling, and embedded systems.

This industrial workshop's goal is to teach technical audiences how to programme and operate Computer Numerical Control (CNC) lathes. This workshop bridges the gap between what audiences with a technical education already know and what they need to learn to start using CNC machine tools. Parts, materials, and machining operations that engineers, innovators, and niche manufacturers frequently employ are highlighted. Workholding techniques suitable for prototype and short-run production are described and illustrated.



This technical workshop is intended for the following audiences:

- * Engineers and designers in the field.
- * Undergraduate or graduate engineering students.
- * Students studying manufacturing and design.
- * Researchers.
- * Innovators.
- * Manufacturers of niche products.

Workshop Outline:

- * Lathe machine overview/resources.
- * Shop safety.
- * Coordinate systems.
- * Programming language (G-code).
- * Auto tool change.
- * Milling attachment on the lathe.
- * CNC operation.
- * CNC turning.
- * Antenna/microwave applications.



Workshop Date: Tuesday, December 6, 2022 | Sunday, December 11, 2022.

Workshop Time: 10 AM To 2 PM

Registration Link: <https://ar02gza54qj.typeform.com/to/Jaaq3lva> [Free Attendance]

Location: Innovation Hub, Silicon Waha, New Borg El-Arab City, Alexandria, Egypt.

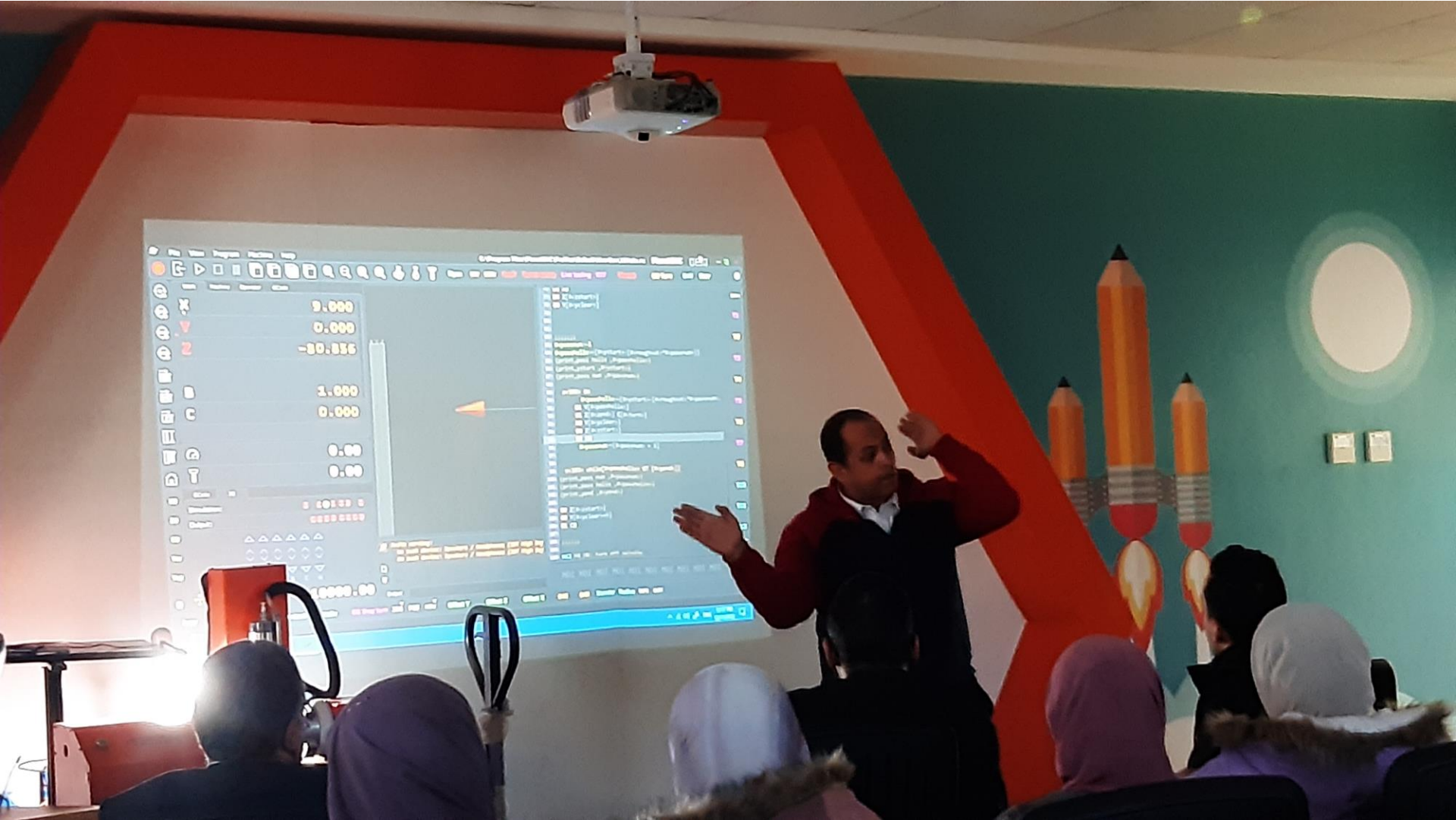
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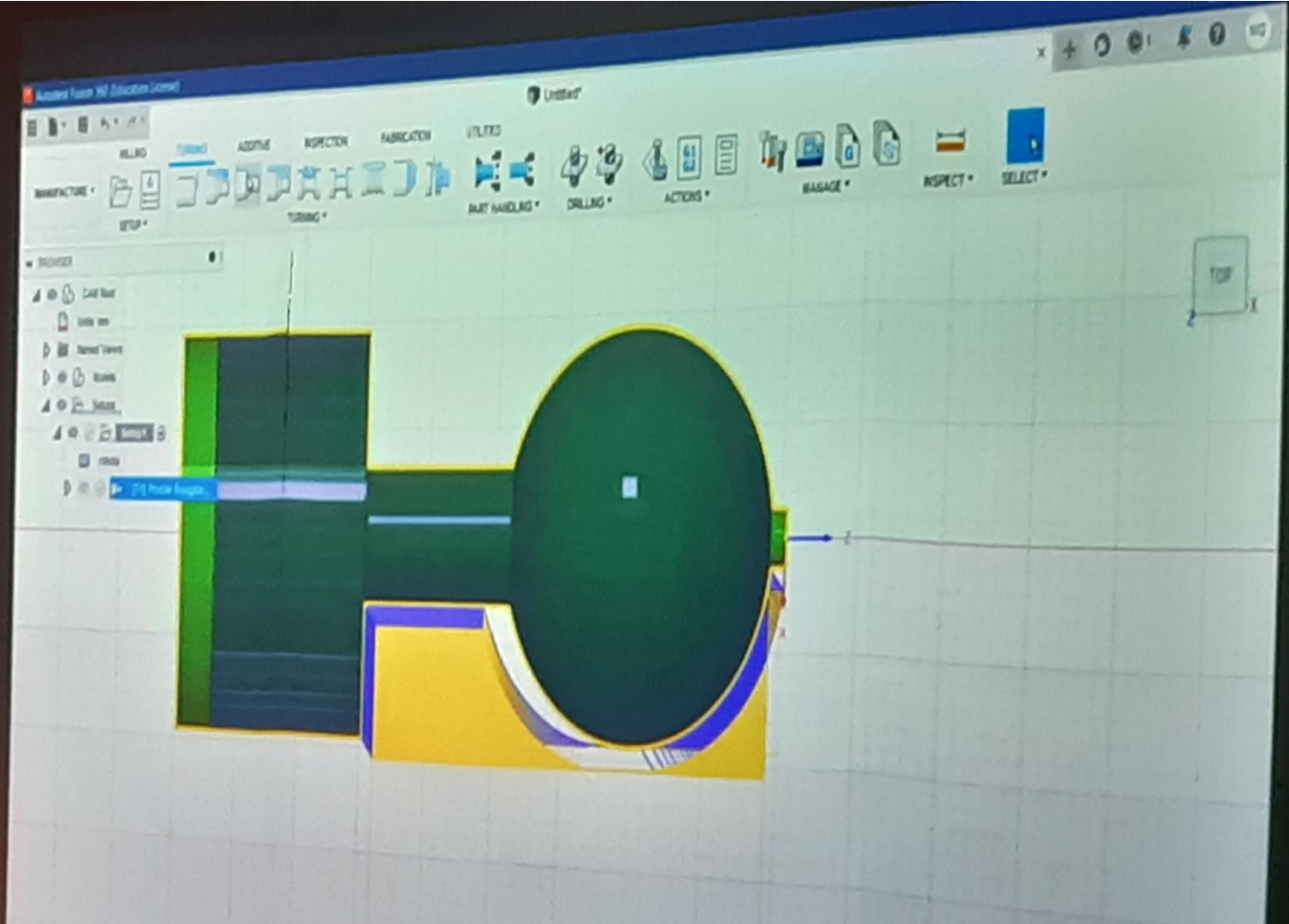


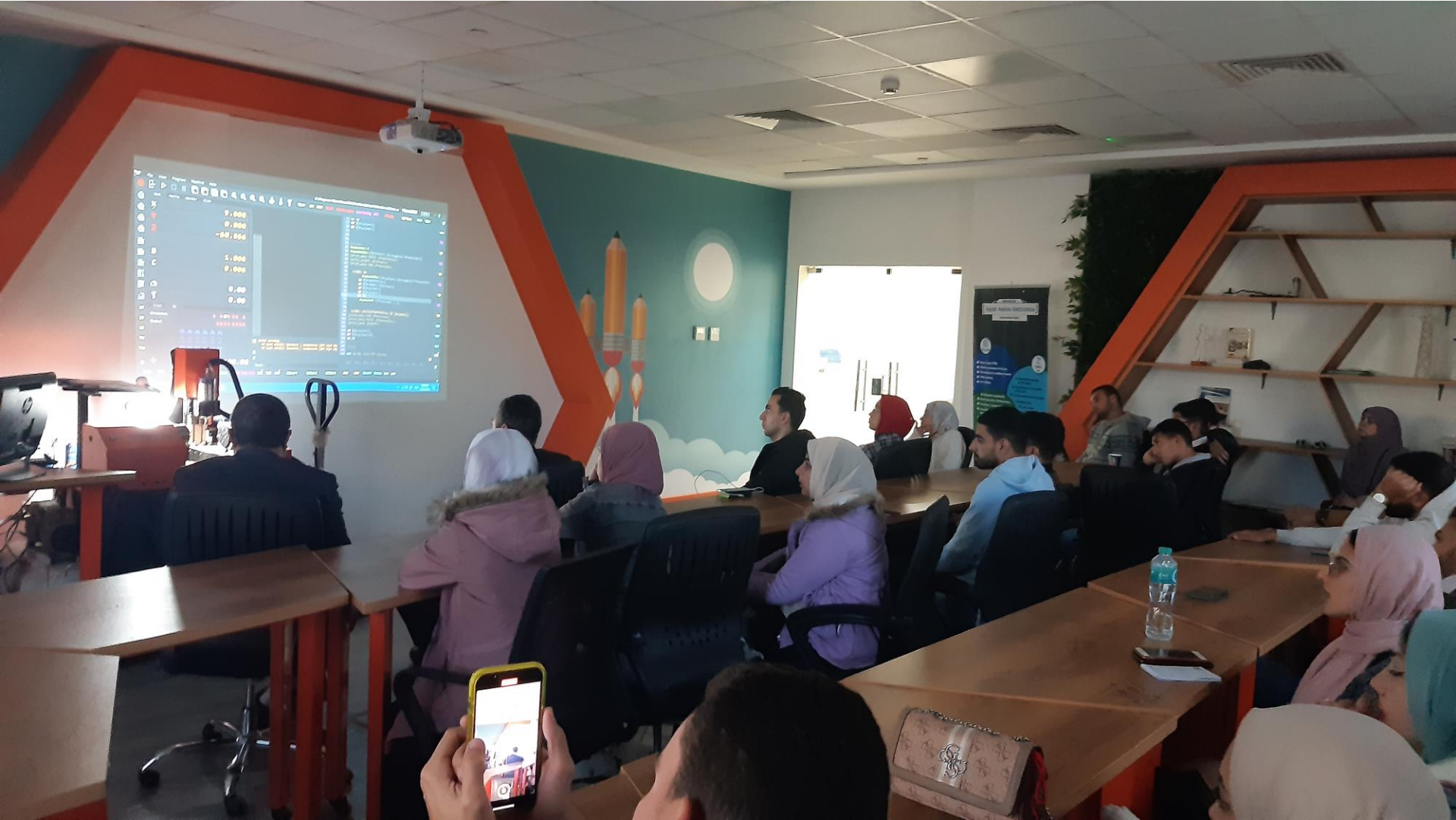










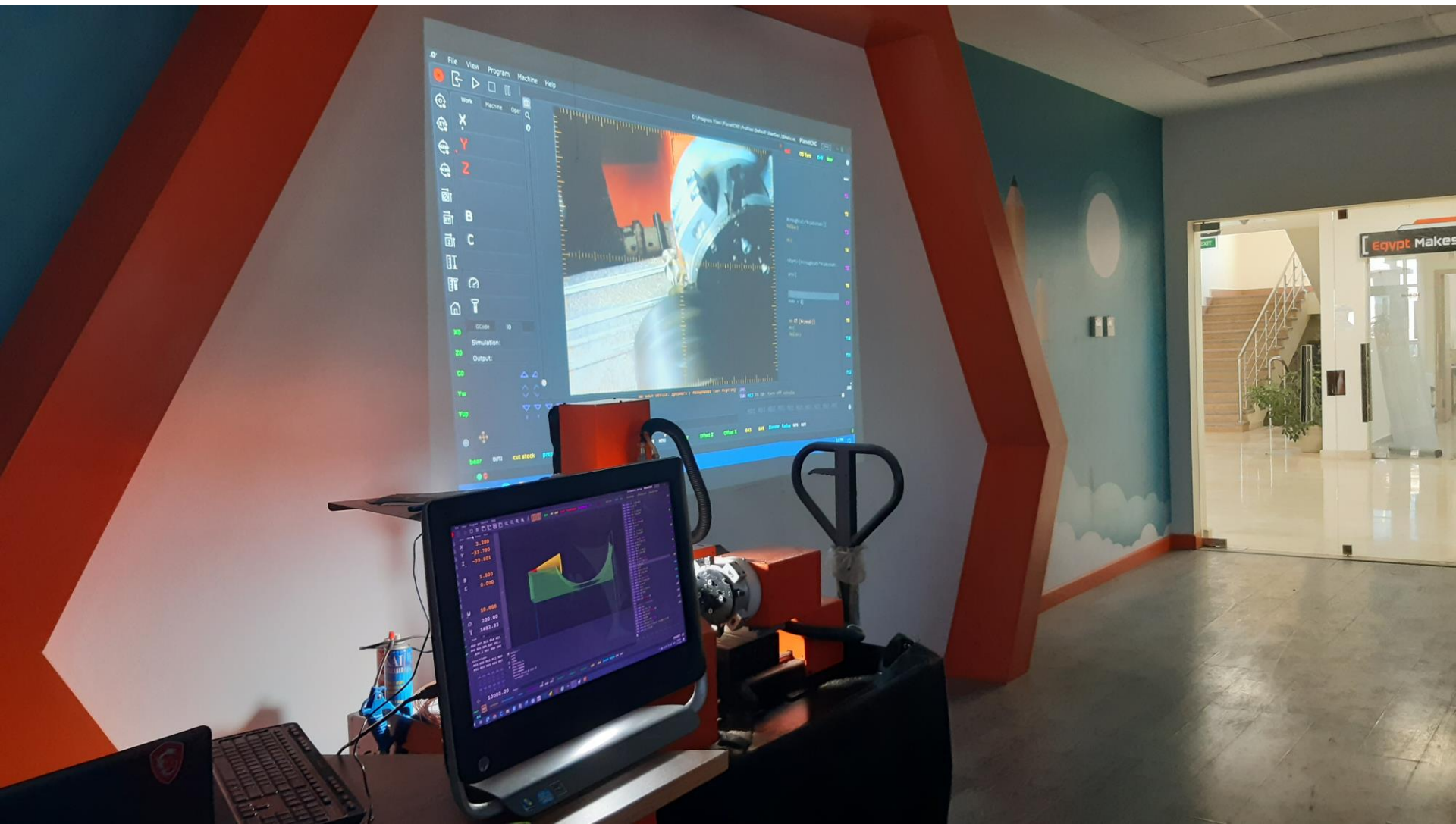






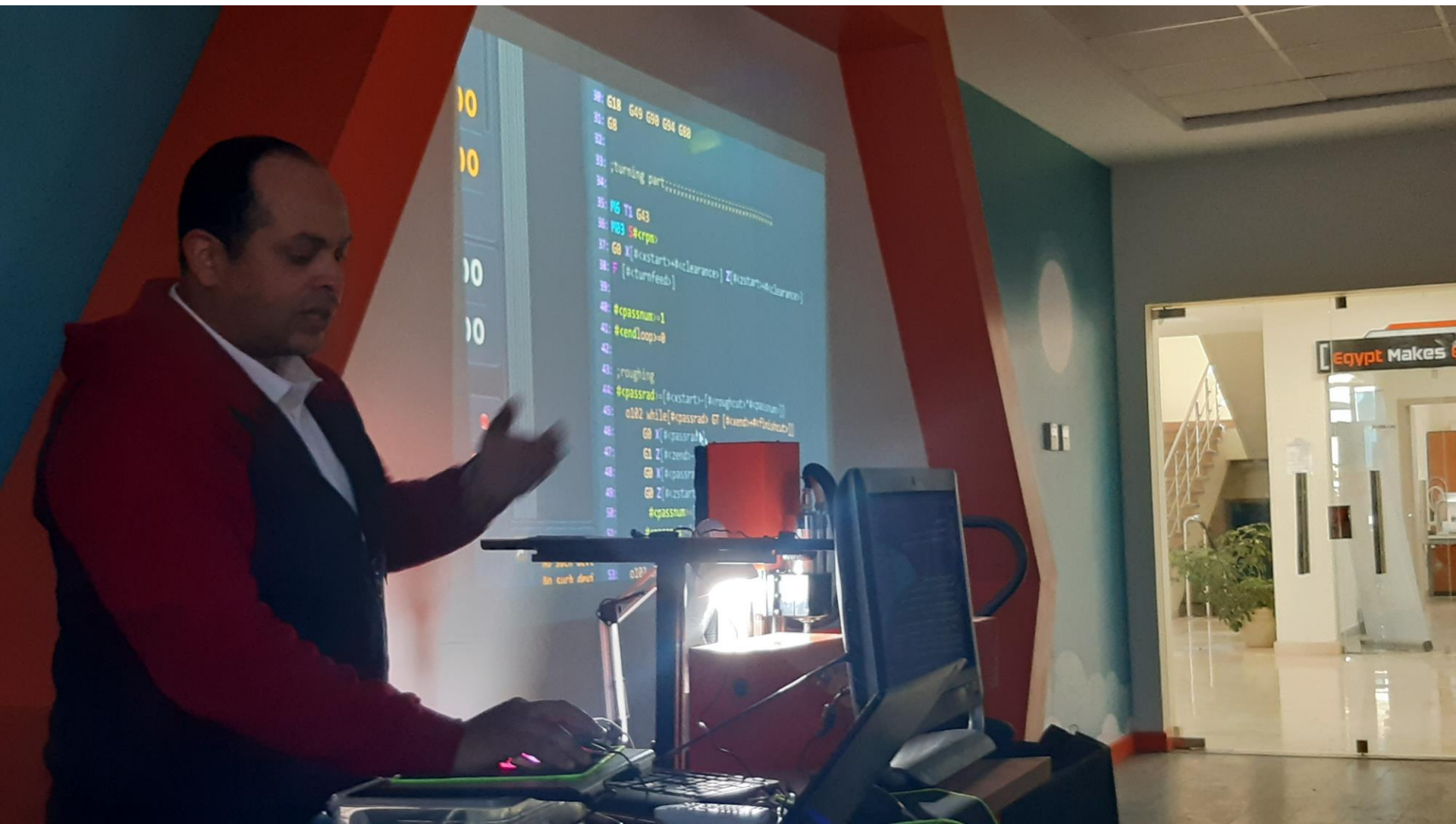






























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