

# Mohamed Ahmed

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📍 Cairo, Egypt

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## Education

- Mechanical power engineering, Faculty of Engineering Ain Shams University. (Sep 2018 – Present)
- Mokattam experiment language School. (Sep 2005 – June 2018)

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## Certifications

- Introduction to Programming with MATLAB (an online course authorized by Vanderbilt University and offered through Coursera ) (july 2020)
- C for Everyone: Programming Fundamentals (an online course authorized by University of California,Santa Cruz and offered through Coursera) (Aug 2020)
- Programming for Everybody (Getting Started with Python)(an online course authorized by University of Michigan and offered through Coursera) (sep 2020)

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## Projects

- Graduation project : green hydrogen production by using hybrid energy ( present )
  - Be funded by the academy of scientific research and technology
  - Also be funded by shneider electric and rock control
  - Design and selection of the airfoil by using solid works and ansys programs
  - Design the electrolyzer by solid works and matlab programs
  - Select the pv system and design its base
  - Design plc system to control the pressure and temperature and flow of hydrogen gas
- Scotch yoke mechanism (Dec 2022)
  - Design and construction of the mechanism by solid works
  - Control the phase angle
- Sheet metal cutting machine by using pneumatic control (June 2022)
  - Using 2 Pneumatic Linear Actuators.
  - Arduino Based.
- Heat temperature control (Dec 2021)
  - Arduino Based.
  - H bridge
  - Pid control
- Heat temperature control (Dec 2021)
  - Arduino Based.
  - Ultrasonic sensor
  - Pid control
- Speed control (Dec 2021)
  - Arduino Based
  - Dc magnetic encoder
  - Pid control
- Manufacture of a convection oven (June 2021)
  - Design the oven
  - Calculate heat transfer and heat radiation and isolation of the oven
- Yaw system mechanism (Dec 2020)
  - Design the mechanism by using solidworks program
  - Manufacturing the yaw system mechanism
  - Control the the speed of the shaft by using dc motor controlled by arduino
- Rolling bearing machine (Dec 2019)
  - Design
  - Machining

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## Field Training

- Summer Training At Hassan Allam (Sep 2022)
  - Gained a deep knowledge about internal combustion engine (SIE, CIE)
  - Gained good knowledge about ICE accessories (as fuel pump, gearbox)
  - Gained a lot of experience in SIE breakdowns
  - Gained knowledge about fixed machines mechanisms (as crusher, grinding)
  - Gained some knowledge in electric motors

- Summer Training at Al Mokawleen Al-Arab (Aug 2021)
    - Gained a deep knowledge about replacing a gear in a gear pump
    - Gained a deep knowledge about repairing suspension system in pick up
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## Technical Skills

- **Programming Language:**
    - C
    - Python.
  - **Tools:**
    - Autocad
    - Ansys engineering simulation software
    - MATLAB
    - Inventor – SolidWorks.
    - Microsoft office programs
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## Skills

- **Language:** Very Good in English (Speaking and Writing)