

# Mohamed Mostafa Elshami

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An assistant lecturer of mechanical engineering at Benha Faculty of Engineering, with a strong teaching experience, a solid research background, and elevated mechanical engineering skills. I am a qualified researcher in mechanical system dynamics, robotics, simulation, and control. I am seeking to enrich my career portfolio through academic studies at reputable and sophisticated research institutions.

## Education

**Harbin Institute of Technology, Harbin, China (2018-2020)**

**M.Sc. Degree in Mechanical Engineering**

Research title, “*An approach to control delta robot for object tracking*”, handled the different kinematic models of robotic systems with a focus on Multibody Systems approach. This research aimed to control delta robot in position space to tackle movements of system’s end effector with certain driving constraints.

**Benha Faculty of Engineering, Benha, Egypt (2009-2014)**

**B.Sc. Degree in Mechanical Engineering – Manufacture**

Modules included automation, trends of manufacturing techniques, system dynamics, automatic control, simulation and design of electronic circuits, and mechanics of machinery. Final-year project on “*Production planning and control*”. On the other hand, undergraduate study included both basic and advanced topics in mechanical engineering which mechanics of material, material science, industrial engineering, CAD /CAM, and machine design were part of it.

## Teaching Experience

**Assistant Lecturer, Benha Faculty of Engineering (2021-Present)**

**Demonstrator, Benha Faculty of Engineering (2016-2021)**

- Delivering teaching sessions in mechanical engineering subjects.
- Assisting with program development and student assessment.
- Supervising undergraduate projects.

## Publications

- M Elshami, M Shehata, Q Bai, X Zhao, “***Multibody Dynamics Modeling of Delta Robot with Experimental Validation***” (2021), International Symposium on Multibody Systems and Mechatronics, MuSMe2021:94-102.
- M Shehata, M Elshami, Q Bai, X Zhao, “***Parameter Estimation for Multibody System Dynamic Model of Delta Robot From Experimental Data***” (2021), IFAC-PapersOnLine, 14:72-77.

## Research Skills

- Experienced system modeling of Multibody systems approaches.
- Simulation of Multibody mechanical systems using Adams and Simscape Multibody software.
- Expert developer of computational and symbolic subroutines using Matlab
- Expert modeler of mechanical systems using Solidworks.

## Conferences and Presentations

- **[MuSMe 2021]** 7<sup>th</sup> international symposium on multibody systems and mechatronics, Argentina.

## Online Courses and Certificates

- Python programing, online course included five modules of data structure and data bases.