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FIELDS OF SPECIALIZATION

- Mechatronics – Robotics Design and Analysis.
- Mechanical Modeling and Simulation
- Renewable energy

DEGREES

- **Ph.D.,** Degree (Mechatronics and Robotics Engineering), Egypt-Japan University of Science and Technology, Alexandria, Egypt., 2022, Design and Implementation of a new interconnected Manipulator.
- **M.S.**, Degree (Mechanical Design) , Production Engineering and Mechanical design Department, Faculty of Engineering, Mansoura University, 2016, Design and control of abiologically inspired flapping wing vehicle.
- **B.S.E.E.,** Degree (Production Engineering) , Production Engineering and Mechanical design Department, Faculty of Engineering, Mansoura University, 2008,

ACADEMIC AND INDUSTRIAL POSITIONS

1- (September 2022 To present)- Biomedical Engineering Specific Program - Faculty of Engineering, Mansoura University, Egypt.

2- (June 2022 To present)- Assistant professor - production Engineering and Mechanical design department (Mechanical Design, Mechatronics and Robotics Engineering Specialization)- Faculty of Engineering, Mansoura University, Egypt.

PATENTS, PUBLICATIONS

1) "Development of a Balanced 3D Translational Interconnected Manipulator with Solely Rotary Joints/Actuators and Free-Internal-Singularity Workspace", A Sameh, M Fanni, V Parque, AM Mohamed - IEEE Access, 2021.
2) "Finite Element Analysis, Control and Simulation of a Novel 3D Hybrid Balanced Manipulator". International Journal of Mechanical & Mechatronics Engineering, February 2021.
3) "Effect of specific retention biomaterials for ball attachment on the biomechanical response of single implant-supported overdenture: A finite element analysis", Journal of the Mechanical Behavior of Biomedical Materials, 2021.
4) "Hybrid Guidance of Quadrotor Manipulation System for Indoor-Outdoor Active Tasks". International Journal of Mechanical & Mechatronics Engineering, August 2020.

5) "Design, Control, and Dynamic Simulation of Securing and Transformation Mechanisms for a Hybrid Ground Aerial Robot". International Journal of Mechanical & Mechatronics Engineering, February 2020.
6) "Autonomous Flight Take-off in Flapping Wing Aerial Vehicles". publication description Journal of Intelligent & Robotic Systems, March 2018.
7) "New 3D Translational Interconnected Manipulator for Industrial Applications". IEEE International Conference on Mechatronics and Automation (ICMA), August 2018.
8) "Bio-inspired jumping maneuver for launching flapping-wing micro air vehicles". IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC), April 2018.
9) "New Methodology for Achieving Trim Condition for a small Flapping Wing Air Vehicle". Mansoura Engineering Journal (MEJ), March 2015.

Patent

- Mohamed Fanni, Ahmed Sameh, Mahmoud M. Magdy," Novel 3D Interconnected Manipulator with Solely Rotary Joints and Actuators", Egypt Patent No. 848/2018, filed on 21 05, 2018.