

Gamal Abdelnasser's CV



Name Gamal Abdelnasser Ahmed Mohamed.
Address Mechatronics branch, Mechanical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt. (Postal Code: 71516)
Current Job Lecturer.
Citizenship Egyptian.
Date of Birth October, 3, 1988-Assiut, Egypt.
Marital status Married.
Language Arabic (native), English.
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Interests Research, Reading, Mechatronic Systems, Programing Languages and Sport.

Skills

Software

- MATLAB, programming.
- Automation studio.
- Protuse (Electronic circuit's simulation).
- LabVIEW.
- SolidWork.
- Eagle.
- PLC Siemens S7 programming.
- PIC C (for microchip microcontrollers).
- Arduino programing.

Education

- **B.Sc in Mechanical Engineering (Mechatronics Section)**
 - Assiut University, Egypt,2010
 - Commutative average grade: Distinction with honor degree (87.4%).

- Graduation Project Grade: Distinction.
- Project title: Closed loop control on wire winder using torque limiting
- **M. Sc. in Mechatronics Engineering**
 - Assiut University, Egypt, 2014.
 - Thesis Title: An Auto-Tuning Method for the Scaling Factors of Fuzzy Logic Controllers.
- **Ph.D. in Mechatronics Engineering**
 - Egypt-Japan University of Science and Technology, Egypt, 2020.
 - Thesis Title: Development of Miniaturized Polymerase Chain Reaction (PCR) System for Low Cost and High Precision Sample Detection.

Employment History

- 2020-Now Lecturer, Mechatronics Eng. Dept., Assiut University, Egypt.
- 2019 Exchange Researcher, Waseda University, Japan (four months).
- 2017-2020 PhD. student, Department of Mechatronics and Robotics, E-JUST.
- 2012-2016 Teaching Assistant, Mechanical Eng. Dept., Assiut University, Egypt.

Publications and patents

“An Auto-Tuning Method for the Scaling Factors of Fuzzy Logic Controllers with Application to SISO Mechanical System” International Journal of Materials, Mechanics and Manufacturing, Vol. 3, No. 1, February 2015.

G. Abdel Nasser, A. M. R. Fath El-Bab, H. Mohamed, and A. Abouelsoud, “[Regular Paper] Low Cost Micro-Droplet Formation Chip with a Hand-Operated Suction Syringe,” in 2018 IEEE 18th International Conference on Bioinformatics and Bioengineering (BIBE), 2018, pp. 73–78.

G. Abdel Nasser, A. M. R. Fath El-Bab, A. L. Abdel-Mawgood, H. Mohamed, and A. M. Saleh, “CO₂Laser Fabrication of PMMA Microfluidic Double T-Junction Device with Modified Inlet-Angle for Cost-Effective PCR Application,” *Micromachines*, 2019,10, 678; doi:10.3390/mi10100678.

Type: National patent. Number of file: 1751/2018. Date: 1/11/2018. inventors: 1- Dr. Ahmed Rashad, 2- Eng. GamalAbd El nasser, Ph.D. student, 3- Dr. Hisham Salah, Ph.D lecturer, 4- Prof. Ahmed lofty, professor. Title of patent: Micro- Droplet formation with hand- operated suction syringe.

Nasser, Gamal A., Ahmed L. Abdel-Mawgood, A. A. Abouelsoud, Hisham Mohamed, Shinjiro Umezu, and Ahmed MR El-Bab. "New cost effective design of PCR heating cycler system using Peltier plate without the conventional heating block." *Journal of Mechanical Science and Technology* 35, no. 7 (2021): 3259-3268.

Experience

- **Assistant Lecturer (Research and Teaching Assistant) (2012- 2016)**
Mechatronics and Robotics Engineering, Assiut University, Egypt.
- **Lecturer (2020- now)**
 - **Assisted in teaching the following undergraduate courses:**
 - Automatic Control in Mechanical Systems (MT 421)
 - Automatic Control (1), (MT323)
 - Mechatronics laboratory (1),(MT321)
 - Mechatronics laboratory (2),(MT422)
 - Engineering Drawing,(MC 001)
 - Engineering analysis (2),(MP 222)
 - Mechatronics (A) (MT 423)
 - Measuring Instruments and Mechanical Power Laboratories(MP 326)
 - Measurement and transducers (MT 322)
 - **Supervised the Following undergraduate Projects**
 - Flow and Level Control System Using PLC and HMI, 2013.
 - Autonomous Collision Avoidance Robot, 2014.
 - Digital Control of a Rotating and Tilting Platform, 2012.
 - Mechatronics design of Versatile Robot Gripper, 2015.
 - The design and control of two link robots, 2013.
 - Design and manufacture of Syringe pump 2016.

AWARDS AND ACHIEVEMENTS

- Long- Term travel grants to Japan Waseda University.
- Egypt Government Research Scholarship, 2017. (Doctoral)Research Fellowship, (three years). Ministry of Education,
- "The 1st Egypt-Japan Workshop on Practical Education for Mechatronics and Robotics" at Egypt-Japan University of Science and Technology (E-JUST) from 22-26 march 2014.
- NI Certified LabVIEW Associate Developer (CLAD) jan.2011.
- Egypt Robocon competition (Our team won third place) 2009.
- The distinct student over the five years in the faculty of Engineering, Assiut University, Assiut, Egypt.

Funded Research Projects

- ITIDA projects (CFP124) PRP2015.R19.5. (Member)
- ITIDA projects (CFP139) ARP2018.R24.4. (Member)

Training:

- Effective Communication Skills, Assiut University, Assiut, June 2013.
- Legal Aspects of the Universities, Assiut University, Assiut, July 2013.
- Effective Teaching, Assiut University, Assiut, July 2013.
- Quality Standards in Teaching, Assiut University, Assiut, November 2012.
- International Publishing of Research, Assiut University, Assiut, December 2012.
- Research Team Management, Assiut University, Assiut, December 2013.
- Programming CNC Milling Machine FUNC 2II (Assiut) 2010.
- Elsewedy Electric Company in United Metals factory 2009.
- Aluminum Company at Extrusion Plant (Qena) 2013.
- Assiut steam power plant for electric power generation 2009.

Special Projects:

- Participated in the design and manufacture of 16 channel strain gauge data recorder 2013.
- Participated in the design and manufacture of the refrigerator efficiency data recorder 2010.
- Participated in the design and manufacture of fruit dryer 2015.
- Participated in the design and manufacture of semi-automatic filling machine 2014.