

Mohamed Samir Abdel-Latif

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Experience

Tanta University, Tanta, Egypt

2023 – Present **Director**, University Center for **Career** Development (UCCD)

- Lead a team of five professionals across diverse functions, as well as overseeing a group of 20 student volunteers, fostering collaboration and enhancing team performance.
- Organized a **Mega Employers Round Table** hosting over 17 employers from Gharbia, fostering valuable industry connections.
- Designed and implemented 6 effective **career development** workshops, delivering a total of 12 sessions to approximately 30 trainees per session
- Delivered two comprehensive **entrepreneurship** programs for over 60 students and graduates, focusing on design thinking, business model canvas, team building, pitching, pricing, and market validation. Successfully transformed innovative ideas into viable business ventures.
- Achieved over 90% satisfaction rating in participant feedback, demonstrating a strong impact on attendee engagement and learning outcomes.
- Facilitated two successful company field visits for more than 150 students, bridging classroom learning with real-world experience.

2022 – Present Vice Director, **Quality Assurance Unit**.

- Developed user-friendly online evaluation questionnaires accessible via QR code or link, streamlining the feedback process.
- Contributed to the drafting of institutional bylaws and collaborated on the development of the five-year strategic plan.
- Played a key role as both Director and team member in obtaining ISO certifications (ISO-9001/2015, ISO 21001/2018).
- Coordinated the Accreditation Visit for the Faculty of Engineering across four scientific programs, ensuring compliance and quality standards.
- Appointed as Erasmus Ambassador, promoting international collaboration and exchange.

2021 – Present Lecturer, **Engineering Physics**.

- Conduct lectures in Physics (Electricity, Magnetism, Heat, Properties of Matter, Waves, Optics) to an audience of 400 students, delivering 24 lectures per semester.
- Teach Material Science and Engineering courses to both undergraduate and postgraduate students, enriching their understanding of fundamental concepts.

2009 – 2016 Instructor, **Engineering Physics**.

- Led tutorials in Physics, conducting 10 sessions per week for 30 students per class, promoting interactive learning.
- Instructed tutorials in Electrical Circuits, Electronics, and Measurements and Instrumentation, providing focused support for 30 students per class.

Egypt-Japan University of Science and Technology (E-JUST), Alexandria, Egypt

2016 – 2021 **Ph.D. researcher**

- Engaged in a part-time role as a Physics Assistant Lecturer while pursuing Ph.D. studies.
- Conducted extensive research in **Tokyo**, Japan, as part of a collaborative team for 9 months.
- Developed nanomaterials using techniques such as RF-Sputtering, thermal evaporation, solvothermal synthesis, and spray pyrolysis.

- Characterized nanomaterials through advanced methods including XRD, FE-SEM, Raman spectroscopy, EDX, UV-vis spectroscopy, and FTIR analysis.

Training and Courses

American University in Cairo (AUC), Cairo, Egypt.

- **Entrepreneurship training of Facilitators** (EToF), Venture Lab - School of Business, American University of Cairo (AUC).
- **Certified Professional Trainer** (CPT), the American Chamber of Commerce.
- **Certified Manager**, the Institute of Certified Professional Managers (ICMP) in America.
- Disability Equality Training (DET), Helm company with the International Labor Organization (ILO).
- Facilitating Career Development (FCD), The National Career Development Association (NCDA) with AUC.

Helwan University - Leadership Development Institute, Helwan, Egypt.

- Leadership Training Program.

Tanta University, Tanta, Egypt

- Program Self-Evaluation: Faculties and Institutes of Higher Education, The National Authority for Quality Assurance and Accreditation of Education (NAQAAE).
- Preparing the Academic Leaders training.
- Fundamentals of credit hours system workshop.
- Internal auditor training course (**ISO-9001/2015**, **ISO 21001/2018**, ISO 19011/2018), Quality Middle East Ltd. "QME".

Education

Egypt-Japan University of Science and Technology (E-JUST), Alexandria, Egypt.

2016 – 2021 Doctor of Philosophy, **Material Science and Engineering**

- Grade: Excellent.
- Thesis title: "Synthesis and characterization of copper tin sulfide nanoparticles and thin films for solar cells applications"

Faculty of Engineering, Tanta University, Tanta, Egypt.

2010 – 2015 Master of Science, **Engineering Physics**

- Grade: Excellent.
- Thesis title: "Preparation and characterization of some solders used in microelectronics applications"

2003 – 2008 Bachelor of Science, Electronic Engineering and Electrical Communication

- Grade: Excellent with honor degree, 2nd in class.

Skills

Languages:

- Arabic (native), English (fluent), and Japanese (basic)

Computer:

- Utilized Microsoft Office (Word, PowerPoint, and Excel)
- Experimented with multiple Scientific software.

Lab:

- Thin film deposition:
 - Physical techniques: RF-Sputtering, Thermal Evaporation, Electron Beam Deposition (EBD), and Spray Pyrolysis.
 - Chemical techniques: Solvothermal, Chemical Vapor Deposition (CVD), Chemical Bath Deposition (CBD), and Electrophoretic Deposition.

- Characterization techniques (XRD, Raman, FTIR, FESEM, TEM, Hall effect, and UV-vis spectroscopy)

Online pages

- YouTube Channel (**Lectures**): <https://www.youtube.com/@mohamedsamir1437>
- LinkedIn page: <https://www.linkedin.com/in/eng-mohamed-samir>
- Orcid ID (**Publications**): <https://orcid.org/0000-0002-6002-2071>

Publications

- D. Khalafallah, **M.S. Abdel-Latif**, M.A. Ibrahim, Q. Zhang, Coordination materials for supercapacitors, in: *Electrochemistry and Photo-Electrochemistry of Nanomaterials*, Elsevier, 2025: pp. 251–286.
- **M.S. Abdel-Latif**, M.H. El-Shafei, A. Hessein, A. Abd El-Moneim, Flexible and freestanding temperature sensors based on laser carbonization of carbon nanofibers, **Sens Actuators A Phys** 370 (2024) 115280.
- M.H. El-Shafei, **M.S. Abdel-Latif**, A. Hessein, A. Abd El-Moneim, Laser-induced carbonization of carbon nanofibers free-standing electrodes for flexible interdigitated micro-supercapacitors, **FlatChem** 42 (2023) 100570.
- W. Magdy, A. Kanai, **M.S. Abdel Latif**, F.A. Mahmoud, E.T. El Shenawy, S.A. Khairy, H.H. Hassan, M. Sugiyama, Impact of Na and/or Sb on the CTS thin films and solar cell performance, **Jpn J Appl Phys** 60 (2021) 105506.
- **M.S. Abdel-Latif**, A. Rezk, N.M. Shaalan, A. Abdel-Moniem, A. Hessein, Effect of sulfur precursors on structural, optical, and electrical properties of Cu₂SnS₃ nanoparticles, **Journal of Nanoparticle Research** 23 (2021) 1–13.
- **M.S. Abdel-Latif**, W. Magdy, T. Tosuke, A. Kanai, A. Hessein, N.M. Shaalan, K. Nakamura, M. Sugiyama, A. Abdel-Moniem, A comprehensive study on Cu₂SnS₃ prepared by sulfurization of Cu–Sn sputtered precursor for thin-film solar cell applications, **Journal of Materials Science: Materials in Electronics** 31 (2020) 14577–14590.
- **M.S.A. Latif**, N.M. Shaalan, A.A. El-Moneim, Characterization of Crystalline Cu₂SnS₃ Synthesized via Low Temperature Solvothermal Method, in: *Key Eng Mater*, Trans Tech Publications Ltd, 2018: pp. 62–66.

Conferences

- 9th International Conference on Material and Manufacturing Technology (ICMMT 2018), NUST MISIS, Moscow, Russia, April 28-30, 2018.
- 3rd International Conference on Materials Science and Engineering (ICMSE-RAC 2020), EJUST, New Borg El-Arab, Egypt, March 15-17, 2020.

Research Areas of Interest

Material Science and Engineering

- Energy conversion and storage (Solar cells – Supercapacitors).
- Sensor applications (Strain gauge sensors, Temperature sensors, Gas sensors).