

Dalya J T Sharaf

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Experienced Research Engineer with 8+ years in higher education, specializing in **biomedical engineering, medical devices, and advanced research equipment**. Skilled in **AI-driven medical imaging, image classification, and 3D reconstruction/analysis**, with proven expertise in planning, training, and supervising research projects. Strong background in **engineering applications for medical sciences** and a graduate of University of Birmingham.

Education

University of Birmingham/UK

Sept 2023 till Sep 2025

MSc of Artificial intelligence and Computer science,

Thesis titled: Orthopantomogram (OPG) Quality Monitoring Through Artefacts Classification Using CNNs

Gulf Medical University

Sept 2019– Feb 2020

Course of Research Methodology, Biostatistics and Evidence Based medicine.

Ajman University

Jan 2010 -Sept 2013

BSc of Biomedical Engineering, merit: Excellent with honor.

Graduation Project titled: Facial Emotional Detection using Image processing by MATLAB.

Work Experience

Research Lab Engineer – Dentistry College Ajman University/Ajman UAE

March 2014 – Present

- Maintain a schedule for undergraduate and graduate students' workflow to ensure that all students complete research work on time during the academic year.
- Supervising 100% of assigned dental students while using the research equipment proper use of research equipment during the academic year.
- Training 100% of research students, who require to use the research equipment, on appropriate use of research equipment and appropriate safety measures used in research laboratory during the academic year.

Teaching Assistant – Engineering College/Mechanical Engineering Department /Ajman University/Ajman UAE

Jan 2021 – June 2024

- Giving a 1st & 2nd year Engineering Student a Lab for Engineering Material course and Mechanics of solid course.
- Explain how to use different type of material and sample preparation methods.
- Show them different mechanical testing machine and explain how we can use them.

Teaching Assistant – Engineering College / Biomedical Engineering Department /Ajman University/Ajman UAE

March 2017 – Jun 2017

- Giving a 3rd year Engineering Student a Lab for Biomedical Design Course (3 sections)
- Explain for them how to design ECG circuit and how implant the component in order to get the signal from the body.
- Explain the Arduino and how to use the IDE in order to write a program and run your own design.
- Explain the Application of Arduino in Medical devices.

Application Engineer – TEKNOMED Medical Equipment's/Dubai UAE

Nov 2013 – March 2014

- Supplier of HOLOGIC company in UAE for specially women's health care.
- Demonstrate women's diagnostic machine (Mammogram, biopsy needle) for different hospital and Clinics
- Help in the Project Coordinator in meeting the CBOs
- Prepare and follow up with the call for proposals
- Prepare all the required papers for MOH license to export the machines, import and export producers

- Main job is coordinating with Ministry of Health.
- Organized the service maintenance for the sites depending on the Warranty and PPM.
- Help in the Project Coordinator and dealing with the service company “Gulf Drug”
- Analysis different trends from different suppliers and choose the most applicable offer which fit the need and Budgets.
- Dealing with inquiries from the different hospital section.
- Doing the annual inventory to all departments and warehouse

Training and Certificates

- Gaining Practice Hygiene Infection Control in a Dental Office from Global Link Development Education Centre Sep 2024
- Gaining Fundamentals of Deep Learning from NVIDIA June 2024
- Gaining 2nd Advanced Operator training certificate about uCT machine provided by SCANCO MEDICAL Swiss company done at SCANCO Medical AG – Zurich – Switzerland 14-18Aug 2023.
- Volunteering at Special Olympics Event held by Sanad/ Dubai 2nd Nov 2022.
- Gaining Advanced Operator training certificate about uCT machine provided by SCANCO MEDICAL Swiss company done at SCANCO Medical AG – Zurich – Switzerland 16-20 Aug 2021
- Gaining an Operator training certificate about uCT machine provided by SCANCO MEDICAL Swiss company done at Ajman University 2-3 OCT 2019.
- Pass GRE (Graduate Record Examination) 15th of October 2018.
- Attending DNA extraction training 25th of January 2017 organized by Alliance Global Group/Dubai.
- Attending 3D printing Conference 26th-27th of January 2016 organized by Arab health congress/Dubai.
- Scientific conference 2015/2016 at collage of Dentistry at Ajman University.
- Organize and participate in 12
- Gaining an Operator training certificate about Thermocycler machine provided by SD mekatronick German company done at Ajman University 2016.
- Attending workshop titled: Entrepreneurship and Career Development held on December 5^h-2012.
- (June 25th 2012 – July 8th 2012): Trainee in an Internal Training Program for undergraduate students in Ajman University Science & Technology, Ajman, United Arab Emirates. Attended two weeks of lectures and practical sessions to improve s and hard engineering skills.

Publications

- Preventive potential of arginine incorporated in fancy waters for erosive tooth wear <https://doi.org/10.1016/j.ident.2024.105500> Journal of Dentistry, Volume 153, February 2025, 105500
- Comparative Evaluation of Flexural Strength of Four Different Types of Provisional Restoration Materials: An In Vitro Pilot Study *Children* **2023**, 10(2), 380; <https://doi.org/10.3390/children10020380>
- Canal Shaping Extent with Apex Locators- Integrated Endodontic Motors: A MicroCT study, BMC Oral Health (submitted)

Language proficiency:

- Arabic language: Native.
- English language: Excellent speaking, reading, and writing.

Computer Skills:

- Microsoft office (Word, Excel, PowerPoint, Access and Visio)
 - SPSS statistical software.
 - Computer-aided circuit design and PCB wizard using Multisim application and Lab view.
 - Programming languages: MiKro C, Microsoft Visual C++, MATLAB, Arduino IDE
- Image J, AutoCAD, Python, uCT evaluation -IPL Language and script writing

Personal Information:

- Date of Birth: 14-Aug-1991.
- Place of Birth: Sharjah\U.A.E. • Visa Status: Ajman University
- Gender: Female.
- Marital Status: Married.