ABDULLAH HEMDAN

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Profile

Biomedical Engineering Master's student with software development background seeking a Werkstudent/Praktikum position in medical software development, clinical engineering, or project management. Offers 2 years of hands-on experience with medical devices, programming (Python, MATLAB, C), and data analytics. Demonstrated ability to optimize equipment performance through custom software solutions and analytics dashboards. Eager to apply technical and project management skills gained at Anhalt University to contribute to innovative healthcare technology solutions at DMEA Berlin.

Work Experience

Biomedical Engineer
Sept. 2021 - Jan. 2023

AM Medical Co. — *Cairo, Egypt*

- Maintained and calibrated a fleet of 25+ advanced biomedical devices (ventilators, patient monitors), ensuring 99.9% uptime and adherence to FDA/ISO standards for patient safety.
- Reduced service response time by 40% by implementing systematic diagnostics procedures, resolving 95% of technical issues within 24 hours across 15+ healthcare facilities.
- Developed and delivered 12 technical training programs for 80+ medical professionals, resulting in a 60% decrease in user-related equipment malfunctions.

Laboratory and OR Department Intern
July 2019 - Aug. 2019

Al-Safa Hospital — *Giza, Egypt*

- Processed over 150 laboratory specimens and compiled data for 3 research initiatives, improving sample processing time by 15%.
- Inspected and maintained 20+ critical medical devices daily, identifying 8 potential equipment failures before they affected patient care.

Endoscopy Equipment Intern
May 2019 - June 2019

Medical Leadership Co. — *Giza, Egypt*

- Mastered operation and maintenance procedures for 10+ endoscopy equipment models, completing 40 hours of intensive hands-on training and assisting in 15 clinical demonstrations.

Hemodialysis and Autoclave Intern
Aug. 2018 - Sept. 2018

Cairo University Hospital — *Giza, Egypt*

- Assisted in the operation of 8 hemodialysis machines serving 40+ patients weekly and performed 25+ sterilization cycles using industrial autoclaves, maintaining 100% sterility verification.

Education

Anhalt University of Applied Sciences, Medical Technology
Köthen, Saxony, Germany

Master of Science — *2024 - Present*

Higher Institute of Engineering, Medical Technology and Systems
El-Shorouk, Cairo, Egypt

Bachelor of Engineering — *2016 - 2021*

Technical Skills

Medical Equipment: Installation and calibration of monitoring systems, ventilators, endoscopy, hemodialysis, and sterilization equipment
Software Development: Python (3+ yrs), MATLAB (4+ yrs), C (2+ yrs), SQL, GUI development for medical applications
Data Analysis: Statistical analysis, performance monitoring, diagnostic algorithms, 30%+ accuracy improvement
Project Management: Medical device implementation, team coordination, Agile methodologies, 25% efficiency improvements
Languages: Arabic (Native), English (B2-C1), German (A2-B1, actively improving)

Certifications & Professional Memberships

Technical: Python Programming & Raspberry Pi (Advanced, 2019), Embedded Systems Engineering (120 Hrs, 2019), Analog & Digital Electronics (2018)
Software: Database Management & SQL (2022), Data Visualization with Python (Applied to medical equipment monitoring, 2022)
Memberships: VDE DGBMT - German Society for Biomedical Engineering (2024-Present), Egyptian Engineers Syndicate (2021-Present)