

DR. EMAD MAHMOOD AHMED TALEB

Biomedical Engineering Specialist | Academic Lecturer | Medical Equipment Engineer

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PROFESSIONAL SUMMARY

Accomplished Biomedical Engineering professional with a Ph.D. (with Honors) specializing in medical devices and diagnostic systems. Extensive experience in university-level lecturing, academic administration, and clinical medical equipment maintenance. Proven researcher in Artificial Intelligence applications for medical diagnostics, specifically regarding ECG signal processing and neural network-based disease detection.

EDUCATION

Ph.D. in Technical Science (Medical Purpose Devices, Systems and Products)	2019
Saint Petersburg Electrotechnical University "LETI", Russia (Honors)	
Thesis: Neural network system for the express diagnosis of coronary heart disease on single-channel ECG.	
Master in Biotechnical Systems and Technologies	2013
Vladimir State University, Russia (Honors - Grade: Excellent)	
Bachelor in Biomedical Engineering	2011
Vladimir State University, Russia (Honors - Grade: Excellent)	
Higher Diploma in Nursing	
Vladimir Basic Medical College, Russia (Grade: Good)	2012

PROFESSIONAL EXPERIENCE

Biomedical Engineering Lecturer	2019-2024
Al-Rowad University / University of Science and Technology (Aden)	
Medical Equipment Engineer	2013-2015, 2022
The Republican General Education Hospital, Taizz, Yemen	
Computing & IT Teacher	2013-2023
Taiz University, Yemen	

TECHNICAL & LANGUAGE SKILLS

Engineering Tools:	Matlab, Labview, Proteus, Arduino, C++, Lazarus
Languages:	Arabic (Native), Russian (Fluent), English (Professional)
Soft Skills:	Problem Solving, Academic Instruction, Team Leadership

SELECTED PUBLICATIONS

- Improving Detection and Classification of Brain Tumors Using DenseNet201, Journal of Science and Technology (2025).
- Comparative analysis of single-channel ECG processing methods in revealing IHD, Biomedical Radioelectronics (2019).
- Detection of coronary heart disease by single-channel ECG based on artificial neural networks, Biomedical Radioelectronics (2018).

For more research, please visit <https://scholar.google.com/citations?user=y-wb3OUAAAAJ&hl=ar>