# EYASU DESALEGNE BEYENE

## BIOMEDICAL ENGINEER, ACCOUNTANT

*Derviş Ali, Şeyh Eyüp Sk. 7A, 34087 Fatih/İstanbul*

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## PERSONAL STATEMENT

I am a driven biomedical engineer with a strong passion for integrating artificial intelligence and computational neuroscience to advance healthcare. My academic and professional background has equipped me with a robust understanding of both biological systems and innovative computational methods, enabling me to develop intelligent solutions for complex neurological challenges. I am eager to contribute to research and development that bridges technology and medicine, and I am committed to continuous learning and interdisciplinary collaboration to drive transformative breakthroughs in the field.

## EDUCATION

- **MSc in Biomedical Engineering (with Thesis)**    *Istanbul University -Cerrahpaşa, Istanbul, Türkiye* **Oct 2022- July 2025**
  - CGPA 3.43/4.00
- *Thesis Titile: "Modelling parts of the brain for GAD simulation and Treatment efficacy"*

- **BSc in Biomedical Engineering**
  - *University of Gondar, Gondar, Ethiopia :*    **Sep 2016 - July 2021**
    *Honours: 3rd in Class*
  - CGPA 3.76/4.00
- *Thesis Titile: "Designing local and affordable rTMS device for treatment of Depression"*

- **BA in Accounting and Finance**
  - *Debre Tabor University, Debre Tabor, Ethiopia :*    **Aug 2017 - Sep 2021**
    *Honours: First in Class*
  - CGPA 3.74/4.00
- *Thesis Titile: "Challenges of Proficient account keeping in health facilities"*

## WORK EXPERIENCE, INTERNSHIPS AND PROGRAMS

- **Regional Sales Manager**    **Sep 2021-Jan 2022**

*Wondfo Products, Laboratory and Medical Equipments Sales*
- **Biomedical Engineer**    **Jan 2022-Aug 2022**

*Lalibela General Hospital, Mantainance and Installation*
- **Project Manager**    **Jan 20201-Jul 2021**

*Armour Hanson Research Istitute in Ethiopia (Development of rTMS)*
- **Service Engineer Intern**    **Sep 2020-Jan 2021**

*UoG Comprehensive Specialized Hospital, Medical Equipment Management*

## PROJECTS

- **AI Supported Digital Microscope**

*Advanced imaging sensors with machine learning algorithms to capture, process, and automatically analyze microscopic images for enhanced precision and rapid diagnostics.*

- **Affordable Local rTMS Device**

*device employs compact electromagnetic coils and optimized control circuits to deliver precise magnetic pulses that modulate neural activity for therapeutic benefits.*

- **Low price Foldable Wheelchair**

*lightweight, durable materials and an easy-to-use folding mechanism, providing a cost-effective and portable mobility solution without sacrificing comfort or safety.*

- **Hybrid of Capsule net with Densnet for the detection of retinal pathologies from OCT images**

## SKILLS

**Software and programming:**
- *Programming Languages; python, c, c++*
- *Machine learning: Scikit-learn, TensorFlow, Keras*
- *Computer vision; OpenCV*
- *Design: Solidworks*

*Soft skills*
- *Leadership*
- *Communication*
- *critical thinking*

**Language**
- *Amharic: Native*
- *English: Upper C1*
- *Turkish: C1*

**Hobbies**
- *Playing Guitar*
- *Touring*
- *Pet sitting*

## EXTRACURRICULAR ACTIVITIES AND CERTIFICATES

| Certificate | Date | Issuer | Description |
|---|---|---|---|
| *Award Appreciation Certificate* | 06.05.2014 | Tewodros Higher Education & Preparatory School | Recognized for outstanding performance in a local educational competency competition. |
| *Leadership Certificate* | 30.04.2014 | YSEL | Awarded for demonstrating leadership potential during a full-month English language training scholarship by the US Embassy. |
| *YSEL Debre Tabor Certificate* | 12.06.2015 | Dalsha B.A School | Acknowledges the role as director of a youth solidarity and English language improvement day camp. |
| *Science Fair Certificate* | 22.08.2011 | Dalsha B.A School | Honored for inventing a small robot from local materials and achieving first place in a science fair competition. |
| *Science Fair Certificate 2* | 08.08.2012 | Dalsha B.A School | Recognizes creativity with a hydro dam project converting water energy into electricity. |
| *AGE Summit Certificate* | 15.07.2015 | US Embassy | Awarded for work addressing gender issues and improving access to quality education for female students. |
| *Camp English Letter* | 12.07.2015 | Peace Corps | Presented in recognition of positive contributions as a counterpart during an English language camp. |
| *Debate Club Participation Certificate* | 01.02.2021 | Univ. of Gondar & USA Embassy | Recognizes active participation in an English debate club. |
| *Tutor Teacher Certificate* | 22.01.2019 | Univ. of Gondar | Awarded for providing tutoring support to freshman and second-year engineering students. |
| *Counselor Mentorship Certificate* | 16.08.2016 | American Councils/USA Embassy | Recognizes mentorship and facilitation at a Youth Solidarity and Leadership summer camp. |
| *BESA Vice Presidency Certificate* | 12.05.2021 | Univ. of Gondar | Acknowledges contributions as part of the Biomedical Engineering Students Association. |
| *Debate Club Participation Certificate* | 28.04.2021 | Univ. of Gondar | Awarded for involvement in an English language improvement and debate club. |
| *CHAI Training Certificate* | 02.08.2021 | Ethiopian Public Health Institute | Recognizes training in cold chain management as a biomedical engineer. |
| *Peace Chairman Certificate* | 19.07.2021 | Univ. of Gondar | Awarded for serving as chairman of the IoT Peace Forum over a three-year period. |
| *Grand Ethiopian National Debate Finalist Certificate* | 11.05.2021 | Bahir Dar Univ. | Honored for being a finalist in a national debate competition. |
| *Dereja Mentor Certificate* | 31.07.2021 | Dereja Accelerator/MasterCard Foundation | Recognizes mentoring of trainers in job skill training programs. |

References :  **1. Assoc. Prof. ERKAN ATMACA   email: erkan@iuc.edu.tr**
**2. Assoc. Prof. MANA SEZDİ        email: mana@iuc.edu.tr**