

## Contact

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## Top Skills

Natural Language Processing (NLP)  
Healthcare Information Technology (HIT)  
Healthcare Industry

## Languages

English (Full Professional)

## Certifications

Professional Data Scientist

## Honors-Awards

FICS Finalist

# Muhammad Talha Bin Rauf

Chief Innovation Officer at Revive Medical Technologies Inc |  
Founder Codexter Labs Pvt Ltd | Innovation Consultant  
Islāmābād, Pakistan

## Summary

I am dedicated to driving technology towards adaptable and efficient applications, contributing to global innovation. I envision a future where technology is more adaptable, efficient, and consumer friendly. I aim to leave a lasting legacy for future generations.

## Experience

Revive Medical Technologies Inc.  
2 years

Chief Innovation Officer  
November 2024 - Present (9 months)  
Florida, United States

I lead the end-to-end innovation process for software-based medical devices — from concept to deployment. I oversee planning, design, development, and testing of digital health solutions, ensuring each idea is transformed into a reliable, user-centered product. My focus is on turning innovative concepts into impactful medical technologies powered entirely by software — built with nothing but 1s and 0s.

Head of Software Division  
August 2023 - November 2024 (1 year 4 months)  
Dover, Delaware, United States

- Develop and optimize embedded software systems for cutting-edge medical devices.
- Collaborate with cross-functional teams to integrate AI and data science algorithms into real-time applications.
- Design, implement, and test software solutions that enhance the performance and accuracy of medical technologies.
- Contribute to the architecture and firmware development of next-gen healthcare devices.
- Ensure compliance with industry standards and regulatory requirements.

Codexter Labs

## Advisory Board | Technical Consultant

April 2024 - Present (1 year 4 months)

As Founding Partner of Codexter Labs, my dedication extends past simply running a successful business and serving our clients. We actively work to create a positive influence on the people and communities around us.

## Al-Waase

Founder

January 2023 - Present (2 years 7 months)

Islāmābād, Pakistan

- Develop the strategic vision and mission for Al-Waase, aligning with the brand's commitment to elegance and comfort in home textiles.
- Lead the design, development, and curation of a premium collection of home textile products.
- Build and lead a creative team, fostering a culture of innovation, collaboration, and excellence.
- Establish and execute a business plan, including market research, target audience identification, and brand positioning.
- Oversee product development, sourcing, and quality assurance to ensure the highest standards of craftsmanship.
- Create and manage relationships with suppliers, artisans, and other stakeholders in the textile industry.
- Drive brand awareness and growth through effective marketing and promotional strategies.
- Collaborate with the team to create a strong online and offline presence, engaging with customers through social media and other channels.
- Monitor industry trends and competitors to identify opportunities for differentiation and growth.
- Maintain financial oversight, including budgeting, financial forecasting, and expense management.

## N-ovative Health Technologies Pvt Ltd

2 years 11 months

Project Team Lead - Production Task Force

November 2022 - August 2023 (10 months)

Islāmābād, Pakistan

- Develop action plans to mitigate risks in decision making while increasing profitability by leveraging data science.
- Build predictive models using various machine learning tools to enhance the production capacity and fulfilment of annual sales requirements.

- Build predictive models using various machine learning tools to predict the possibility of equipment failure.
- Develop algorithms using NLP for predictive maintenance.
- Design and development of potential solutions and relevant risk assessment.
- Deployment of software and hardware solutions related to maintenance, enhancement, and development.
- Optimization of financial resources and productivity enhancement needs.
- Utilize analytical and technical expertise to provide insights and proposals to support business improvements.
- Active engagement in the quantitative analysis to address business issues.

### Process Specialist

November 2021 - August 2023 (1 year 10 months)

Islāmābād, Pakistan

- Managing production of PTCA Balloon Catheter (Class-III Medical Device) Manufacturing under ISO-13485.
- Practical implementation of ISO-13485: Quality Management System of Medical Devices.
- Ethylene Oxide Sterilization using EO KM-01 of biomedical disposable and implantable devices as per ISO 11135-2014.
- Development of Key Performance Indicators (KPI) and presentation to management for execution planning.
- Keeping check on adherence to production practices and SOPs.
- Production Documentation under ISO-13485.
- Plan, implement and coordinate quality procedures for technical and management process as provided by QMS Cell.
- Lead training sessions for newly hired team members and/or for skill development of existing team members.

### Officer In-charge

August 2021 - October 2021 (3 months)

Islāmābād, Pakistan

- Technical Lead of all the projects under research and development.
- Responsible for developing electromedical devices.
- Managing approvals from regulatory bodies of Pakistan for Electro-Medical Devices before pilot-scale production.
- Implementation and practice of applicable ISO Standards during development of biomedical projects.
- Embedded System Testing as per applicable QA Standards for Class 2A & Class 2B Medical Devices.

- Embedded Software Testing using various tools (PARASOFT, VectorCast etc.)
- Risk analysis and management, Software and System Requirement Analysis using applicable standards.
- Software Development Life Cycle (SDLC) Documentation.
- Designing of QMS and production SOPs for upcoming products.

#### Technical Training Officer

May 2021 - July 2021 (3 months)

Pakistan

- Embedded System Testing as per applicable QA Standards for Class 2A & Class 2B Medical Devices.
- Embedded Software Testing using various tools (PARASOFT, VectorCast etc.)
- Embedded System Designer for various electromedical devices.
- Design Engineer of N-Saviour Ventilator System.
- Responsible for software development lifecycle (SDLC).

#### Design Engineer

October 2020 - April 2021 (7 months)

Islāmābād, Pakistan

- Embedded System Designer for various electromedical devices.
- Design Engineer of N-Saviour Ventilator System.
- Responsible for software development lifecycle (SDLC).

#### NECOP

Research Intern

July 2018 - August 2018 (2 months)

Islamabad

- Designed and deployed embedded system for Pakistan's 1st Electronic Voting Machine.
- Designed embedded system for data acquisition and control of automated car dashboard.
- Designed Graphical model for the system using NI LabVIEW and FlowCode.

#### Interloop Limited

Research Intern

August 2017 - September 2017 (2 months)

Faisalabad

- Learnt and supervised operation of high-furnace oil based (2 x 7.7 MW) Wartsilla Generators and grid-level distribution in the Hosiery Division (HD).

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## Education

### Stanford University

Professional Certification, Artificial Intelligence (Healthcare) · (2024 - 2025)

### National University of Sciences and Technology (NUST)

Bachelor of Engineering (B.E.), Electrical Engineering · (2016 - 2020)

### Punjab College of Science, Faisalabad

HSSC, Pre-Engineering · (2014 - 2016)

### Divisional Model College, Faisalabad

Matriculation · (2012 - 2014)