



## Inventor Business Card:

### Dr. Khalid Abualsaud, how would you present yourself to the readers of the Research Magazine?

I am an academic faculty member and researcher specializing in electronic health, with an interest in leveraging technology. My research is focused on developing cutting-edge technological solutions to enhance the quality and efficiency of healthcare delivery.

Throughout my research career, I have focused on connecting artificial intelligence to monitor chronic diseases, analyze and secure health data, and develop smartphone applications that empower patients to manage and track their health effectively. I collaborated on numerous research initiatives with the QNRF and leading medical institutions. My work has been published in reputable, peer-reviewed scientific journals, contributing to the growing knowledge in eHealth.

### Can you share with us the patents registered under your name at Qatar University?

To view a list of patents, you can search through specialized platforms such as Google Patents, where most academic patents are registered. If you have any questions or need help, please feel free to contact. Here is the link to it: [https://patents.google.com/?q=\(abualsaud\)&inventor=khalid&oq=khalid+abualsaud](https://patents.google.com/?q=(abualsaud)&inventor=khalid&oq=khalid+abualsaud)

### What led you to focus on epidemics and diseases in your inventions despite your specialization in computer engineering?

Combining computer engineering with the medical field opens new horizons for saving lives and enhancing healthcare. The primary motivation behind my focus on epidemics and diseases in my inventions is the desire to use technology to serve humanity and improve the quality of life. Chronic diseases pose significant challenges to healthcare systems worldwide, and I believe technology can be a powerful tool to address these challenges.

### What are the main challenges you faced while developing innovations in the healthcare field?

There are certain genuine challenges like:

- Sourcing materials and components for medical or technical devices can be a time-consuming process and may delay project progress.
- The medical data quality and sensitivity are subject to strict privacy standards, which makes accessing it challenging.



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- Compliance with international and local health regulations and standards can be lengthy and complex.
- Understanding technical and medical requirements is essential.

Despite these challenges, developing innovations in the healthcare field is highly rewarding, as it has a significant positive impact on people's lives and health.

### If you had the opportunity to develop an impactful invention in the field of sustainable public health, what idea would you work on?

I will work on developing a smart wearable device to continuously monitor biomarkers for chronic diseases (such as diabetes, high blood pressure, epilepsy, and respiratory issues). The device will automatically send data to the physician and provide users with personalized, real-time recommendations to improve disease management. Leveraging artificial intelligence, the device will predict potential complications early, reduce the need for frequent hospital visits, and help reduce overcrowding. This will promote sustainable healthcare and ease the burden on healthcare systems.

### What advice would you give to Qatar University students interested in research and innovation?

That:

1. Choose a field of study that you are passionate about and excited to explore.
2. Stay updated by reading scientific papers, attending seminars, and participating in workshops.
3. Join research teams within or outside the University to increase and develop their horizons.
4. Connecting with experts, such as professors or experienced researchers, to seek advice or guidance.
5. Participate in scientific competitions and manage time effectively.