

# ARUMUGARAJ

## Embedded Product Development Professional

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Embedded Product Development | Qualcomm QCC5171 & AR1 | Smart Wearables & Eyewear | Production-Ready Systems



### SUMMARY

Experienced embedded product development professional with a strong foundation in electronics, physics, and system design. Proven expertise in smart wearables, eyewear devices, and retail systems from concept to mass production. Skilled in cross-functional leadership, hardware-software integration, vendor management, and root-cause problem solving.

### EXPERIENCE

#### Manager – Embedded Product Development

**Titan Company Limited**

04/2022 – Bangalore, India

Smart wearable product development

- Led **smart wearable and retail device development** from concept to mass production.
- Managed end-to-end product development lifecycle, including prototyping and production readiness.
- Designed and developed product prototypes for validation and pilot builds.
- Led cross-functional teams including brand, vendor, hardware, software, mechanical, and marketing teams.
- Built PRDs, product roadmaps, budgets, and handled vendor identification and negotiations.
- Worked on eyewear development using Qualcomm QCC5171 and AR1 platforms.
- Lead digital phoropter hardware and software development

#### Technical Executive

**Titan Company Limited**

04/2016 - 03/2020 – Bangalore, India

Hardware Design & Development

- Hardware design and development for wearable and IoT products
- Component selection, BOM management, board bring-up, and debugging
- Worked on BLE, Bluetooth, and IoT technologies
- Handled PCB fabrication, assembly, and testing
- Developed test cases, performed testing, troubleshooting, and validation
- Programmed MCU ADCs for temperature, voltage, and current sensing
- Worked on BLE, Bluetooth, and IoT technologies
- Handled PCB fabrication, assembly, and testing for various wearable products
- Responsible for creating test cases, testing, troubleshooting of a product

## EXPERIENCE

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### Engineer

#### Aqua Sub Engineering

04/2012 - 04/2013    Coimbatore, India

Maintenance role

- Performed preventive and breakdown maintenance on all related equipment
- Provided technical/engineering support for the Maintenance, Operations, and Project teams
- Knowledge on different AC and DC motor speed control and Electrical control panel wiring with PLC

## EDUCATION

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### M.Tech in Data Science and AI (WILP)

#### PES University

07/2025    Bangalore, India

### Bachelor of Engineering in Electrical and Electronics

#### JKK College

07/2012 - 07/2016    Erode, India

### Diploma in Electrical and Electronics Engineering

#### RGP College

04/2010 - 04/2012    Erode, India