

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

KEY ACHIEVEMENTS



3 TIME UNLIKE Awards Winner

Winner of the category 'Piloted Technologies' of the annual UNLIKE Awards for wireless battery charger and lens Analyser



Dream Team Nominee

Winner of the category 'Dream Team Nominee' of 2018 Feb for Implemented Technology



Patents Achievements

5 ideas patents completed and 3 ideas patents under process

TECHNICAL SKILLS

Embedded & Firmware

Embedded C / C++

ARM Cortex-M

SEGGER Embedded Studio (SES)

RTOS basics

nRF52840

Qualcomm QCC5171

Qualcomm AR1

Python

OrCAD

Arduino

SQL

Your Skill

Hardware & Electronics

Schematic design

Analog Electronics

Circuit Analysis

Datasheet Analysis

Component Selection

Arduino, Raspberry Pi

PCB layout

AFE

Power selection

OrCAD

EXPERIENCE

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

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