# ARUMUGARAJ

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## SUMMARY

- Experienced in embedded product development with strong analytical skills and strong knowledge in physics, electronics and system design.
- Possess superior problem-solving and time-management abilities; adept at identifying the root cause of issues and implementing targeted solutions.

## TECHNICAL SKILLS

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| **Programming Tools** | **:** C, C++ |
| **Communication Protocols:** | SPI, UART, I2C, Wifi,Bluetooth, BLE, |
| **Software Tools** | **:** Segger embedded studio, Keil, Orcad Cadence, Eclipse Code Composer Studio, Arduino, IAR Embedded workbench. Image-j, Basics python, |
| **Hardware Tools** | **:** CRO, Current Analyser, Battery Tester |
| **MCUs/SoC** | **:** MSP430F5529, nRF52832, Nrf52840, AT mega 328, Epson-S1C17V12, Raspberry pi, NodeMCU, NXP QN9008. |

## EDUCATION

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|---|---|---|
| **Bachelor of Engineering in Electrical and Electronics** | \| JKK Collage, Erode, India  \| | Jul-2016 |
| **Diploma in Electrical and Electronics Engineering** | \| RGP College, Erode, India \| | Apr-2012 |

**Course-works:**

- Speed calculation by Rotary encoder using Arduino controller. To find the speed of motor. Using UART communication transfer data for displaying on Tera term.

## PROFESSIONAL EXPERIENCE

**Assistant Manager   |   Titan Company Limited, Bangalore, India|**                     **04/2020 – Present**

*Project Management:*

- Managing the process of product-development, from concept through Mass production stage, ensuring design intention, and product cost and assortment strategies are achieved.
- Designing and development of product prototypes so as to prove the concept
- Primary interface for design team, brand and vendors through all stages in the product-development cycle
- Leading cross functional teams including brand, vendor & marketing teams in various projects for timely execution and completion
- Experienced with building PRDs, developing roadmaps, budgeting, vendor identification, and negotiations.

**Technical Executive   |   Titan Company Limited, Bangalore, India|**                     **04/2016 – 03/2020**

*Hardware Design& Development:*

- Experienced in the development of new architecture for a product –worked on BLE, Bluetooth and IoT technologies.
- Each R&D projects Hardware and software (Embedded) programming and executive the project

- Handled the works on PCB fabrication, assembly and testing for various wearable products (Worked along with Design team)
- Responsible for creating test cases, testing, troubleshooting of a product.
- Programmed ADCs used in MCU for sampling temperature, voltage and current values and implemented a synchronous logic between two MCUs to sample data.

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**Engineer**      |  **Aqua Sub engineering Coimbatore, India** |      **04/2012 – 04/2013**
**Maintenance:**
- Perform preventive and breakdown maintenance on all related equipment in a timely and cost-effective manner.
- Provide 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

## AWARDS AND PATENTS

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- 4 ideas patents completed and 4 ideas patents under process.
- Winner of the category "**Piloted Technologies**" of the annual **UNLIKE Awards** for wireless battery charger and lens Analyser
- Winner of the category "**Dream Team Nominee**" of 2018 Feb for Implemented Technology.

### Patented Application under My projects

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Patent **Application No**

- Method for detecting Bluecoat in a lens and a lens Analyser.            - 201741026357
- Method and device for detecting photochromic coating property of lens   - 201741026394
- Method and device for detecting Ultra violet [UV] coating property in a lens   - 201741026353
- System and method for detecting scratches in an optical/spectacle lens   - 201941017809
- Live Monitoring Hoarding and image comparison (IOT Device).            - Patent Filled
- NFC auto time correction and Energy harvesting system (NFC Watch).      - Patent Filled
- MG defect detection and Method of finding  scratch, stain and chip off   - Patent Filled
- Production -Analogue watch is placed on the induction coil of the time setting system. -Patent Filled

### Skills

| Technical | | Managerial | |
|---|---|---|---|
| Architecture Design | ★ ★ ★ ★ ★ | Project Management | ★ ★ ★ ★ ☆ |
| Firmware Development | ★ ★ ★ ★ ★ | Budget & roadmap | ★ ★ ★ ☆ ☆ |
| Troubleshooting | ★ ★ ★ ★ ☆ | Vendor Management | ★ ★ ★ ★ ☆ |