

# PrithviRaj Narendra

## Embedded Systems Consultant | Hardware + Firmware

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## SUMMARY

**Embedded Systems Consultant** with end-to-end expertise in embedded hardware and firmware development, from concept to mass manufacturing. Skilled in designing digital, analog, and power electronics, with deep experience in low-power systems, power regulators, and Bill of Materials (BoM) optimization. Developed scalable, memory-efficient firmware for bare-metal and RTOS environments across a wide range of micro-controllers. Strong background in IoT systems integrating Bluetooth Low Energy (BLE), cellular and WiFi, with cloud & mobile connectivity. Extensive work with lithium battery technology, particularly battery management systems (BMS). Passionate about open-source tech & committed to environmentally sustainable engineering.

## EXPERIENCE

### Embedded Systems Consultant

📅 10/2024 - Present 📍 Bengaluru, India

As an embedded systems consultant, I can help your design in any stage - from an idea to mass manufacturing, both in hardware and firmware. Here's one of my recent work with an [open source design](#).

### Lead Embedded Engineer

#### Nunam Technologies

📅 08/2020 - 10/2024 📍 Bengaluru, India

I've lead the embedded team with deep knowledge of lithium batteries to build Internet of Things systems for batteries deployed at scale. I've also developed BMS specifically for 2nd-life batteries. Overall, I've contributed in people operations, hiring, customer service, product & project management in projects I took ownership.

### Founder

#### Appiko

📅 10/2017 - 2020 📍 Bengaluru, India

Lead Appiko with mission to develop cost-effective technology solutions for wildlife conservation and prevention of human-animal conflicts. Developed a range of ultra-low power wireless animal sensing products.

### Embedded Engineer

#### Lofelt

📅 01/2015 - 01/2017 📍 Berlin, Germany

From an idea stage I was involved in designing the electronics at the schematic level and firmware development. Particularly I worked on the design of the low-latency, low-power streaming protocol, overall code architecture development, User Experience (UX) implementation, power optimization and in-factory test routine to mass manufacture.

### Firmware Engineer

#### BluVision Inc.

📅 11/2014 - 04/2015 📍 Berlin, Germany

Firmware development for sensor interfacing and BLE beacons.

## WORK PHILOSOPHY



### Transparency

Be open about what you know or don't.



### Win-Win

Fully understand my clients' needs, provide value that supports their bigger picture.



### Frequent communication

Provide concise periodic updates to prevent any surprises later.

## SKILLS

RTOS	TDD	Embedded Firmware	
BLE	IoT	DFM	PCB Design
BoM optimization		Power Electronics	
Li Battery	BMS	Manufacturing QA	

## EDUCATION

### MSc in Embedded Systems

#### EIT Digital Dual Degree

📅 08/2012 - 06/2014

• Year 1: TU Eindhoven, Year 2: KTH Stockholm

### BTech in Electronics & Comm.

#### RV College of Engineering

📅 09/2007 - 05/2011 📍 Bengaluru, India

## PROJECTS

### STUDSAT

📅 02/2009 - 05/2011 📍 Bengaluru, India

Single handedly developed the entire camera payload system for [India's first pico-satellite](#).

### Embedded for Her

📅 04/2017 - 08/2017 📍 Bengaluru, India

Conceived and executed a skill development program with FSMK in the field of embedded systems for a cohort of 12 women, with a focus on free hardware and software.