

# Shrunkhala Naik

**Electronics Educator**

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Shrunkhala Naik  
Maharashtra, India

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## Experience

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**Yashwantrao Bhosale Institute of technology/ Visiting Faculty**  
JANUARY 2024- APRIL 2024

Conducted lectures & practical in the following subjects:

Microprocessors and

Microcontroller Programming

**Government Polytechnic Bicholim, Goa/ Visiting Faculty**  
DECEMBER 2023- APRIL 2024

Conducted lectures & practical in the following subjects:

Applied & Integrated Electronics,

Basic Electronics

**Government College of Engineering, Ponda, Goa/ Visiting Faculty**  
OCTOBER 2023- NOVEMBER 2023

Conducted Practical and Tutorials in the following subjects:

Digital Electronics,

Basic Electronics,

Electric Circuit Analysis

**Government Polytechnic Panjim, Goa/ Visiting Faculty**  
FEBRUARY 2023- APRIL 2023

Conducted practical in the following subjects:

Power Electronics,

Basic Electronics,

Circuit simulation and automated PCB design

**Turito / Online Robotics Instructor**  
SEPTEMBER 2020 - PRESENT

3 years of experience in conducting online Robotics, classes for students from Australia.

**Byjusfutureschool** / Online Math & Coding Instructor  
SEPTEMBER 2020 - PRESENT

3 years of experience in conducting online Robotics, coding and math classes for students from the UK, US, UAE, Australia, Malaysia.

**Siemens, Goa** / R&D Intern  
AUGUST 2015- AUGUST2016

Provided support to live projects included

- Designing and testing miscellaneous circuits and implementing them on PCBs.
- Formatting PCB designing tools using Visual Basic
- Generating BOM for different versions of the same device using excel macro
- Miscellaneous PCB CAM Jobs

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## Exams Qualified

Qualified for Assistant Professor through UGC NET exam conducted in June 2023

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## Education

**GOA ENGINEERING COLLEGE/** M.E. Microelectronics  
JULY 2014- JULY 2016

Ranked second with a CGPA of 8.17

**SHREE RAYESHWAR INSTITUTE OF ENGINEERING & IT /**  
B.E. Electronics & Telecommunication Engineering  
JULY 2010- JULY 2014

Passed with Distinction (Percentage = 75.05%)

**V.DEMPO COLLEGE OF ARTS AND SCIENCE/** H.S.S.C.  
JUNE 2009-MAY 2010

Passed with 1st class (Percentage = 60%)

**PEOPLE'S HIGH SCHOOL/** S.S.C.  
JUNE 2007-MAY 2008

Passed with Distinction ( Percentage = 83%)

## Technical Skills

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### TOOLS USED:

- PCB DESIGN:
  - Mentor graphics DxDesigner, Library Manager, Xpedition PCB,
  - Eagle 7.5,
  - LTSpiceIV, CAM Viewer
  - Proteus
- VLSI DESIGN :
  - Magic,
  - Ngspice,
  - Mentor Modelsim
- MICROCONTROLLER PROGRAMMING:
  - AVR Studio 4,
  - TinkerCAD for Arduino
- FPGA PROGRAMMING:
  - Xilinx ISE

### LANGUAGES KNOWN:

- VHDL, Verilog, Embedded C/C++, Python

### HARDWARE DEALT WITH

- Raspberry PI kit
- Arduino Uno
- XILINX FPGA kit (Virtex 5)

## Soft Skills

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Patience, Communication, Confidence and persistence

## Projects

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### **Siemens, Goa/ NON-REPLACEABLE SD CARD SUBSTITUTE**

JULY 2015-JULY 2016

The project involved:

- A study of the possibilities of using a non-volatile, non-replaceable memory as a cost effective alternative to industrial grade SD card
- Implementation of the solution i.e. Memory On Board with a SD interface.

### **IFB Industries Ltd., Goa/ DATA LOGGER FOR WASHING MACHINE**

JULY 2013- JULY 2014

A data logger was designed to facilitate manual testing of washing machines. It involved:

- Transferring data from physical points to a computer via a microcontroller
- Signal conditioning at the input end of the microcontroller
- A GUI for storage, display and analysis of data using Visual Basic forms

### **PERSONAL PROJECT/ RECHARGEABLE LED BULB**

The project involved a study of LED bulb circuits and implementation of a rechargeable LED bulb circuit on a PCB.

## Personal Details

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**Name :** Shrunkhala Naik

**Date of Birth:** 13/02/1993

**Gender:** Female

**Address:** Mathewada, Sawantwadi, Maharashtra

**Languages Known:** English, Marathi, Konkani and Hindi