Kedar **Mahale**

GRADUATE ENGINEER

Goa, India

☐ (+91) 8308249755 | ✉ kedarmahale1@gmail.com | in kedarmahale

Summary

Hard-working and sincere individual, picks up required skills fast, a team-player.

Skills

Languages : C, C++, Python, Verilog
Software : Xilinx Vitis, MATLAB, Cadence Virtuoso, Xilinx Vivado, KiCAD

Experience

Saankhya Labs Pvt. Ltd.   *Bengaluru, Karnataka*
MEMBER OF TECHNICAL STAFF (EMBEDDED SOFTWARE DEVELOPER)   *Oct. 2020 - Present*
- Working in the 5G RU team as an embedded C developer with emphasis on ORAN front-haul interface.
- Embedded software development for Arm processors such as A53, R5 (baremetal, freeRTOS).
- Development of PA control and monitoring at the RF frontend.
- Developed test modules for fault management at fronthaul interface - worked in C, Python, Cython.

SIEMENS Energy Automation Ltd.   *Verna, Goa*
INTERN   *May. 2018 - Jun. 2018*
- Worked with the incoming quality control team, also got an overall overview of the manufacturing process in PCB industry.

Education

National Institute of Technology Goa   *Ponda, Goa*
BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING, CGPA: 8.52/10   *Aug. 2016 - Jun. 2020*

Deepvihar Higher Secondary School   *Headland-Sada, Goa*
HIGHER SECONDARY SCHOOL CERTIFICATE, PERCENTAGE: 89.19%   *Jun. 2014 - Apr. 2016*

St. Andrew's Institute   *Vasco, Goa*
SECONDARY SCHOOL CERTIFICATE, PERCENTAGE: 91.67%   *Jun. 2008 - Apr. 2014*

Projects

Marine VHF Radio Receiver
B.TECH. PROJECT   *Aug. 2019 - Jun. 2020*
- 1.8 V, 180 nm radio receiver operating in the 156MHz - 174MHz (Marine VHF) band.
- Design of a low noise amplifier.
  -Gain of 14 dB at 165 MHz, integrated noise-figure of 4.0 dB(156-175MHz), 21 mW of power.
- Design of an active mixer with current injection.
  -Conversion gain of 14 dB, noise figure 27 dB at 15 MHz.
- Design of a ring oscillator with quadrature outputs tuned to 150 MHz.

Simulation of a 2-user CDMA system
MATLAB SIMULATION   *Mar. 2019 - Apr. 2019*
- Design and simulation of a 2-user 4-bit CDMA communication system.

Dynamic Range Radio frequency jammer
MINI PROJECT   *Mar. 2018 - Apr. 2018*
- Design and implementation of radio frequency jammer in 89 - 105 MHz band.

Workshops

Internet of Things *NIT Goa*
2 Day workshop on an introduction to internet of things *Oct. 2016*

Accelorobitics *IIT Bombay*
2 Day workshop on an introduction to acclerometer and its working with arduino *Dec. 2018*

Volunteering

Serendipity Arts Festival, 2018 *Panjim-Goa*

Asia Students Photonics Conference, 2016 *MIT Manipal*

Hobbies and other interests

Photography, photo editing, travelling, trekking, also interested in astronomy, maths, statistics and physics.

References

Dr. Nithin Kumar Y B *NIT-Goa*
HoD, Department of Electronics and Communication Engineering *nithin.shastri@nitgoa.ac.in*

Dr. Trilochan Panigrahi *NIT-Goa*
Associate Professor, Department of Electronics and Communication Engineering *tpanigrahi@nitgoa.ac.in*

Dr. Badri Narayan Subudhi *IIT-Jammu*
Assistant Professor, Department of Electrical Engineering *subudhi.badri@iitjammu.ac.in*