

# B Krishnan Iyer

## Objective

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Ambitious towards getting industrial exposure and to develop skills in an abetting environment of an organization with a great purview.

## Education

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### Amrita Vishwa Vidyapeetham

2016-2020

Kerala, India

### Bachelor in Electrical and Electronics Engineering.

*Current CGPA-8.53/10*

### D.T.E.A Senior Secondary School

2014-2016

Delhi, India

### All India Senior School Certificate Examination.

*Secured 77.8%.*

### Agarwal Vidhya Vihar

2012-2013

Gujarat, India

### All India Secondary School Examination.

*Secured 6.8/10*

## Skills

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**Software:** GIT, assembly (ARM, PIC mid- range, TMS320F28027), C. C++, MATLAB, bash, PCB design (OrCAD), circuit design(PSPICE, Proteus, MATLAB), SIMD, NEON, ARM-A32, ARM-AARCH64.

**Hardware:** Analog circuit design, soldering, PCB design.

## Interest

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Embedded Design, Computer Arch, Mirco-controllers, Signal Processing, Optimization techniques and Electronic Material Science.

## Projects and Internships

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### Google Summer Of Code'19

May, 2019 - Now

California, United States

### dav1d ARM NEON Optimization

*Project Assignee*

Increased performance to a minimum of 10x as compared to c implementation, by implementing in assembly language using SIMD architecture on ARM cortex A53 and A73. [link](#)

### Amrita Center for Cyber Security Systems and Networks

August 2018-December 2018

Kerala, India

### Hardware Support

*Intern*

Improved circuits and hardware quality with cost reduction for projects like e-stethoscope, biometric door-lock and vehicle tracking system.

### Google Summer Of Code'18

May, 2018 – August, 2018

California, United States

### SDHCI MMC Driver for Haiku OS

*Project Assignee*

Implemented support for SDHCI controller according to SD Host controller specification for Haiku OS on x86 architecture. [link](#)

## Self-Initiated Projects

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- Worked on low-cost prosthetic limb and mitigated inverse kinematics singularities with neural network model.
- Worked on TMS320F27028(C2000 DSC) for implementing Neural Network algorithm with optimized processing and memory management. [link](#)
- Developed Peripheral Drivers for STM32F446RE (ARM Cortex M4) followed from an online course at Udemy. [link](#)
- Worked on IOT projects such as water level detection, smoke detection and moisture control for the plants using Nodemcu.

## Achievements

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- Got selected as one of the speakers at VideoLAN Dev Days'19, Tokyo, Japan.
- Tagged as a developer and tester at Moodle and added in top 700 developer chart.
- Secured first place in All India Essay Writing Event 2014 in the Institution Level.

## Volunteering

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- **FOSS@Amrita** – An active member of Free and open source club in the college and has mentored many students for different open source software development.
- **Robotics club** – An active member of Robotics club where we develop various control and automation system.
- **IoT workshop** – Guide/ Instructor for 15 days workshop where students were taught basics of arduino programming and networking with ESP8266.
- **Amma's Birthday** – Volunteered for food and accomodation in event for more than 4 lakhs of attendees.
- **Students Social Responsibility** – Conducted a clean drinking water awareness campaign at Sarayakadavu.
- **Amala Bharatam Campaign** – Participated in several cleaning drive for nearby locality and Shabrimala Temple, Kerala.

## Contact Details

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## Languages

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Hindi, English, Malayalam