KEVIN PRAKASH

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OBJECTIVE

Work with an organization which provides me the opportunity to hone my skills and knowledge. Develop my ability to work as a team and to grow along with the organization.

EDUCATION

B.E. - Electronics and Communication(ECE) *August 2016 - September 2020*
BMS College of Engineering(Autonomous), Bangalore CGPA : 8.83

KPUC - Physics Chemistry Math Electronics(PCME) *July 2014 - June 2016*
CMR Pre University College, Bangalore Overall Percentage: 85.5

10th Standard (CBSE) *June 2006 - July 2014*
SJR Public School, Bangalore CGPA: 9.4

WORK EXPERIENCE

Synopsys Inc, Bangalore *(Jan 2020 - Present)*

ASIC Digital Design Engineer II *Nov 2021 - Present*
ASIC Digital Design Engineer I *Nov 2020 - Oct 2021*
Intern (Technical Engineer) *Jan 2020 - Oct 2020*

Working on the Verification and Test Environment in the USB 3.X IP.
Testing USB 3.X IP compliance with latest xHCI, AXI, PIPE spec.
Worked on functional coverage and assertion testing of design.
Worked on updating the USB 3.X IP to the latest methodology in terms of LINT, CDC and RDC.

PROJECTS

V.I.E.W - Visual Interpreter of Environment Wizard

Created a device that is capable of assisting the visually impaired in their day to day task using Machine Learning. Provides assistance in reading text, describing environment, navigation using maps. Using a Resnet 50, a CNN model was trained that could run fast and accurately on a low power device such as RPi. The user is given the option to provide voice input to activate these features. (code)

Q Channel ARM Power Interface

Developed an interface for verifying power management systems in AMBA for ARM processors. Using UVM concepts designed tests to verify the functionality of the power management module.

Traffic Controller

Developed a 4 Way Traffic controller using System Verilog with option for interrupt to allow pedestrian crossing.

Snake

Wrote the snake game from scratch in C++ in class based form. With multiple maps, textures and a scoreboard. (code)

ML Workshop

Conducted Workshop and Competition on Image Classification as a part of UTSAV (BMSCE Cultural Fest). Contestants were thought the concepts of CNN and then had to create a CNN model that worked better than the organizers model. (Website)

TECHNICAL STRENGTHS

Programming	C, C++ (OOPS and DS), Verilog, System Verilog, Matlab, HTML, CSS, JS, Bash
Scripting	Python, Perl, TCL, csh, bash
Verilog Tools	DC, Spyglass, VCS, NCVerilog, Formality, VCFormal, Verdi
ML Libraries	Keras, TensorFlow, NumPy, SciPy, Scikit-learn, Chainer
Software & Tools	Linux OS, Windows, MS Office, Selenium, Regex, LaTeX

CERTIFICATIONS

Verification of methodology with System Verilog and UVM (Verikwest) [Certificate]
Machine Learning by Stanford University (Andrew Ng) [Certificate]
Computer Vision (The School of AI) [Certificate]
Matlab Certification from BMSCE

EXTRA-CURRICULAR ACTIVITES

Co-Founded NeuralDot in BMSCE NeuralDot
Math Olympiad (State Rank 14)
Guitar
Photography
Gaming

PERSONAL TRAITS

Motivated and eager to learn new skills and techniques.
Confident, dynamic and hard working.
A team player with good coordination and communication skills.