

# YELUVADA JOEL KRUTHI

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## PROFILE SUMMARY:

Seeking a position within a reputable organization to apply technical database and management skills for the organization's advancement, while also aiming to expand knowledge of new and emerging technologies and trends.

## EMPLOYMENT DETAILS:

DESIGN VERIFICATION ENGINEER in TECHMAHINDRA CERIUM SYSTEMS

From → Sep 2021 to – Jun 2023.

## SKILLS:

- Proficient in System Verilog & Verilog.
- Proficient in Digital System Design.
- Proficient in working on Unix/Linux and windows environment.
- Skilled in debugging and troubleshooting with Verdi tool.
- Knowledgeable in C and PYTHON programming language.
- Simulation Tools Verdi, VCS.
- Analytical and Problem-Solving Skills.
- Adaptability.

## WORK EXPERIENCE:

### Design and Verification (IP level)

- During my tenure, involved in the Security IP Maintenance PCOE project for 1 year and 9 months.
- Skilled in creating testbench components at the IP level.
- Developed and executed Verification sequences of functional, Security and power domain features.
- Launched Local Regressions and weekly regressions.
- Created test cases on cache memory with 100% accuracy.
- Analysed test results and identified bugs using Verdi tool.
- Collaborated with design team to resolve bugs and troubleshooting issues.
- Documented Test plans, Reviews, Verification Procedures and Results for future reference.

## PROJECTS:

### ATM:

An ATM program has been developed with essential features including balance checking, deposit, withdrawal, PIN change, account creation, and PIN generation, all with 100% accuracy.

### SMTP:

Developed a basic SMTP protocol for secure login verification. This system generates a random OTP and delivers it via email for user authentication with 100% accuracy.

### Watermarking Techniques:

Created Watermarking techniques to embed extra information into medical images without compromising diagnostic quality, safeguarding sensitive data. Various approaches have been explored using MATLAB for medical image watermarking with 95% of accuracy.

### Encoded control robotic arm:

Used an Arduino to control a robotic arm, allowing it to receive user inputs or follow a programmed sequence, and then translate that into precise control signals for the servomotors. This provides a flexible and programmable control system for the robotic arm with an accuracy of 95%.

**Skillset training/certifications:**

- Digital System Design.
- UVM\_Foundation.
- DV\_debug.
- SV\_foundation.
- Fundamentals of semiconductors.
- UNIX/LINUX.

**Protocols:**

- AHB
- APB
- USB

**EDUCATION DETAILS:*****BACHELORS OF TECHNOLOGY*** in

ELECTRONICS AND COMMUNICATION ENGINEERING

COLLEGE: JNTUK – GV

FROM :2018 – TO :2021

GPA -7.68

***DIPLOMA*** in

ELECTRONICS AND COMMUNICATION ENGINEERING

COLLEGE: ANDHRA POLYTECHNIC KAKINADA

FROM :2015 – TO :2018

PERCENTAGE -88

***SSC***

SCHOOL: RAVINDRA BHARATHI SCHOOL

PASSED OUT YEAR: 2015 GPA- 9.7

**LANGUAGES:**

- English.
- Telugu.
- Hindi.

**HOBBIES AND INTERESTS:**

- Travelling.
- Reading novels.
- Cooking.
- Programming.
- Badminton.

**DECLARATION:**

I hereby declare that the information provided in this resume is true and accurate to the best of my Knowledge.

**YELUVADA JOEL KRUTHI**