**RESUME**

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**Sagar Shah**

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# **Professional Experience:**

* 3 years of experience in ASIC Verification.
* Functional Verification of design at IP level using SV-UVM.
* Experience of developing Verification IP (VIP).
* Experience of dynamic low power verification using UPF.

# **Professional Skills:**

HDL : Verilog, VHDL.

HVL : System Verilog

Methodology : UVM

Programming Language : C, C++.

Protocol knowledge : SATA(DL), MIPI D-PHY, I2C,

MIPI SLIMbus

Power intent standard : UPF

Scripting : Shell

EDA Tools : VCS-MX, Questa-sim, NCSIM

Operating System : Windows, Linux.

Revision Control Tool : CVS, SVN, Perforce

# **Experience:**

* Working as an ASIC Verification Trainee Engineer at eInfochips From December 2013 to June 2014.
* Working as an ASIC Verification Engineer at eInfochips From June 2014 to September 2016.
* Working as an ASIC Senior Verification Engineer (Level 1) at eInfochips since October 2016.

# **Projects:**

## **Project #1**

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| **Project** | **MIPI SLIMbus (v2.0) VIP Development** |
| **Role** | Team Member |
| **Platform** | System Verilog, UVM |
| **Tool** | VCS-MX, Questa-sim, NCSIM |
| **Duration** | Since May, 2016 |
| **Responsibility:**   * Created verification environment structure. * Created top module files for different topologies and including dynamic change/pause of clock and active framer handover support. * Created basic transaction sequences and generic APIs for   + Messages   + Transport protocols * Developed Test-plan for Frame layer, Message protocol and Transport protocols (Isochronous, Pushed, Pulled and Asynchronous). * Implemented test-cases for all mentioned categories mentioned above and debugged it. | |

## **Project #2**

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| **Project** | **Dynamic Low Power Verification** |
| **Role** | Team Member |
| **Team Size** | 4 |
| **Platform** | UPF, System Verilog, VHDL |
| **Tool** | VCS-MX (MVSIM/NLP) |
| **Duration** | 6 Months |
| **Responsibility:**   * Developed Test-plan for below mentioned categories for Verilog design and MX design.   + Isolation   + Retention   + Corruption   + Different design attributes   + Port attributes * Implemented test-cases for all mentioned categories mentioned above and debugged it. | |

## **Project #3**

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| **Project** | **SATA VIP Development** |
| **Role** | Team Member |
| **Team Size** | 8 |
| **Platform** | System Verilog, UVM |
| **Tool** | Questa-Sim |
| **Duration** | 10 Months |
| **Responsibility:**   * Created basic verification environment structure. * Developed packet creation logic from sampled data stream. * Physical Layer:   + Implement power mode features.   + Defining functional coverage and achieve agreed coverage. * Link Layer:   + Coded FSM for Link layer (Primitive support).   + Implemented Power mode features.   + Implemented Error injection support.   + Defining Test-plan for Link layer (which covers all Primitive) and Power mode.   + Test-case writing and verification of Link layer; also to verify erroneous scenarios. * Defining functional coverage and achieve agreed functional coverage. | |

## **Project #4**

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| **Project** | **Microblaze processor based SoC verification** |
| **Role** | Team Member |
| **Team Size** | 5 |
| **Platform** | System Verilog, UVM |
| **Tool** | Questa-Sim |
| **Duration** | 4 Months |
| **Responsibility:**   * Creating Environment for Unit Level Testing. * I2C Unit Level Verification:   + Defining Test plan, which covers basic scenarios of I2C protocol.   + Defined Verification Architecture.   + Developed verification environment.   + Developed test-cases and debugged the RTL using it.   + Implemented and Achieved agreed functional coverage.   + Achieve agreed code coverage. | |

## **Project #5**

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| **Project** | **MIPI D-Phy VIP Development** |
| **Role** | Team Member |
| **Team Size** | 4 |
| **Platform** | System Verilog, UVM |
| **Tool** | VCS |
| **Duration** | 4 Months |
| **Responsibility:**   * Creating basic verification Environment structure. * Developed test-cases and debugged the VIP using it. * VIP Component Development:   + Transaction Class,   + Configuration Class,   + Scoreboard. * Developed Shell script and Makefile for test-case run-flow. * Handling regression management. | |

# **Educational Qualification:**

* **Bachelor of Engineering** in **Electronics & Communication**, from National Institute of Technology Patna (2009 - 2013) with CGPA of 8.31 (7.78 CPI).
* **H.S.C** with 83% (89% merit) from G.S.E.B (2009)
* **S.S.C** with 84.92% from G.S.E.B (2007)

# **Personal Information:**

Full Name : Sagar Shashikant Shah

Date of Birth : 5th Feb, 1992

Nationality : Indian

Sex : Male

Marital Status : Married

Linguistics known : Gujarati, Hindi, English

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Hometown : Ahmedabad