

# MOHIT SHARMA

361 Randolph Avenue, Windsor, ON N9B 2T4 | 226-759-8323

[sharma88@uwindsor.ca](mailto:sharma88@uwindsor.ca) | [linkedin/mohit12562](https://www.linkedin.com/in/mohit12562)

---

## PROFESSIONAL SUMMARY

---

- 5+ years of work experience acquired at Cadence, managing and maintaining thousands of testcases and improve turn time from days to hours by scripting/automating. Demonstrated abilities to **communicate**, **do critical thinking** and, **solve problems**.
- **Teamwork** and **professionalism** skills gained as part of volunteering experience while working with different organizations.
- **Teaching experience** and **time management** skills gained as part of graduate assistantship at University of Windsor, all this while doing thesis work and internship at Aarish.
- **Lifelong learner** with a passion to learn exemplified by learning interests and good skills in Maths/Science since high school.

## SUMMARY OF SKILLS

---

- **Programming Languages:** C/C++, MySQL, HTML, JavaScript, CSS, PHP, Verilog, VHDL
- **Software Applications:** MS Office (Word, Excel, PowerPoint, Outlook), Zoom, Teams
- **Soft Skills:** Excellent Communication, Time management and Organizational skills, independent work
- **Scripting Languages:** csh, tcl/tk, python, perl
- **OS:** Linux (Ubuntu, RHEL, CentOS, SLES, LOP), Windows

## EDUCATION

---

**Master of Applied Science, Electrical Engineering,** September 2020-Present  
University of Windsor, Windsor ON

**Bachelor of Technology, Electronics and Communication Engineering,** July 2011-July 2015  
Jamia Millia Islamia, Delhi, India

## WORK EXPERIENCE

---

**Intern, Mitacs - Aarish Technologies – University of Windsor** October 2021-Present

- Generating and Selecting memories utilizing GF memory compilers by making automated scripts in csh, leading to speed up of turn time from days to hours.
- Scripting done in csh, tcl, python, perl to better QoR and turn time by automating tasks.
- Placed memory macros availing the Cadence Innovus tool and running PNR flow and, ran placement driven synthesis flow using the created def file on Cadence Genus tool.

**Graduate Assistant, University of Windsor, Windsor ON** May 2021-April 2022

- **Appointed Lead Teaching Assistant** for ELEC-4430 and ELEC-3300 courses and, TA-Grader for GENG-8010.
- Ensured all midterms, finals and assignments were evaluated for a class of 50+ students in a detail-oriented and consistent with proper feedback to students.
- **Led weekly lab sessions** and **motivated students** by asking relevant, thought-provoking questions as part of Lab project assessments.
- **Answered student questions** during 80+ office hours during duration of course.

- 
- **Excellent presentation skills** exhibited while presenting projects to students resulting in 90% groups completing the project successfully.

**Product Validation Engineer**, Cadence Design Systems, Noida, India

July 2015-April 2021

- Managed Regression Analysis task, as part of product validation engineer role: Applied **scripting and Web development skills** to automate tasks and improve productivity of the team and collaborated with team members to better the infrastructure promptly, based on given feedback.
- Designed testcases to test MODUS software to enhance coverage and test new features and, maintained a suite of 2,000+ testcases assigned with updates in software utilizing automation.
- Developed **Web applications using HTML, Javascript, CSS, PHP, MySQL and Perl**: Specifically, constructed msgid based webpages that helped gather vital statistics on a suite of around 10,000 testcases enabling easier maintenance.

## **VOLUNTEER EXPERIENCE:**

---

Volunteer, Cadence Design Systems

- As part of Cadence Noida CSR at the “School Building-Construction, Painting and plantation” for Vidya and Child (at Vatika Center, Shahpur Village, Sector 128, Noida) painted school walls, school desks, school boundary walls and tables and, took part in tree plantation drive while **working in a team** to complete the task in limited time.
- Cadence Noida partnered with Rise Against Hunger to pack 80,000 nutritional meals as part of a global campaign, where, as one of the volunteers, **organized the event** along with several others and further, took part in packing 5000+ meals in a **team effort** within a time limit **demonstrating time management, organizational and teamwork skills**.
- As part of Cadence Noida CSR, performed repainting of walls (for non-profit DESIRE SOCIETY - Caring for HIV/AIDS children in India) while **managing time working on my job at Cadence simultaneously**.

## **CERTIFICATIONS:**

---

- “HTML, CSS, and Javascript for Web Developers” from “Coursera, John Hopkins University”
- “Programming, Data Structures and Algorithms” from “Center for Continuing Education, IIT Madras”
- “Machine Intelligence and Learning” from “FITT, IIT Delhi”
- “Introduction to Linux” from “edX, Linux Foundation”

## **PROJECTS:**

---

- Hypergraph Partitioning based on KL algorithm and Maze Router based on Lee-Moore algorithm in C++ (Project Links on Github: [HyperGraph Partitioning](#) , [Maze router](#)).
- Designed, synthesized, and implemented a Triple Port RAM on an FPGA kit ([Triple port RAM](#)).
- CNN model built in Tensorflow/Keras to correctly classify images of dogs and cats with at least 63% accuracy (Project Link: [Link](#)).

**REFERENCES AVAILABLE UPON REQUEST**