

Mihir P Mehta

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Objective	Internship in the area of formal verification.	
Education	Ph.D. in Computer Science , University of Texas at Austin. (August 2014 - present) GPA: 3.83/4 (Spring 2015) B.Tech. in Computer Science and Engineering (CSE) , Indian Institute of Technology (IIT) Delhi. (July 2009 - May 2013) GPA: 7.9/10 Exchange semester , Ecole des Mines, Saint-Etienne. (September 2011 - December 2011)	
Experience	Research Assistant , With Professors Isil Dillig and Thomas Dillig, CS department, UT Austin. (2014-2015) <ul style="list-style-type: none">• Worked on program verification in object-oriented languages. Software Engineer , Samsung Research Institute, Noida, India. (2013-2014) <ul style="list-style-type: none">• Worked as a researcher in Samsung's Systems Core Group.• Primarily tasked with optimising the Linux kernel for Samsung's Android devices.• Improved core components of the Linux virtual memory subsystem.	
Undergraduate Thesis	Algorithms for prebisimilarity With Professor S Arun Kumar, CSE Department, IIT Delhi (2012-2013) <ul style="list-style-type: none">• Conceptualised and implemented a toolkit for verifying bisimilarity and other properties of timed automata and labelled transition systems.• Leveraged UPPAAL model checker to add support for difference bound matrices.• Improved an algorithm for generating a zone graph from a timed automaton.	
Coursework	UT Austin <ul style="list-style-type: none">• CS395T Automated Logical Reasoning (Spring 2015)• CS388L Introduction to Mathematical Logic (Spring 2015)• CS388S Formal Verification and Semantics (Fall 2014)• CS395T Automatic Verification of Software (Fall 2014) IIT Delhi (graduate courses only) <ul style="list-style-type: none">• CSL728 Compiler Design (Fall 2012)• CSL705 Theory of Computation (Spring 2012)• MAL704 Numerical Optimisation (Spring 2012)	
Scholastic Achievements	<ul style="list-style-type: none">• Awarded the UT Austin Graduate School's College Recruitment Fellowship. (2014-2017)• Secured All India Rank 138 in the Joint Entrance Examination (IIT-JEE) among 400000 candidates. (2009)• Secured All India Rank 29 in the All India Engineering Entrance Examination (AIEEE) among 1000000 candidates. (2009)	

- Scored 99 percentile in Verbal and Analytical Reasoning, GRE. (2012)

Technical Skills

Languages: Imperative languages (C, Python, Java), functional languages (OCaml, SML), scripting languages (Perl, Python, Bash), database interaction languages (SQL), logic programming languages (Prolog), hardware description languages (VHDL).

Databases: PostgreSQL, MySQL, SQLite.

Operating systems: GNU/Linux (application development and kernel development).

Compiler frameworks: Soot, LLVM.

Others: OpenGL, GTK+ 2.0 and 3.0, Xilinx, Matlab.