# 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 (UT), Austin, Texas 78712 (August 2014 - present)
GPA: 3.83/4 as of Spring 2015.
B.Tech. in Computer Science and Engineering, Indian Institute of Technology Delhi, New Delhi, India 110016 (July 2009 - May 2013)
GPA: 7.9/10

**Scholastic Achievements**

- Awarded the UT Graduate School's College Recruitment Fellowship (2014-2017)
- Secured All India Rank 138 in Joint Entrance Examination (IIT-JEE-09) among 400000 candidates.
- Secured All India Rank 138 in Joint Entrance Examination (IIT-JEE-09) among 400000 candidates.
- Scored 99 percentile in Verbal and Analytical Reasoning, GRE-2012.

**Experience**

**Research Assistant,** CS department, UT Austin (2014-2015)
- Worked with Professors Isil Dillig and Thomas Dillig on program verification in object-oriented languages.

**Software Engineer,** Samsung Research Institute, Noida, India. (2013-2014)
- 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** CSE Department, IIT Delhi (2012-2013)
- 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.
- Supervised by Professor S Arun Kumar

**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.