Manasa Mahesh
20 Skytop Garden Apt 10 Parlin NJ 08859
(732) 210-8297

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Dear Hiring Manager,

I am a graduate student at the University of California, Irvine (graduated in December 2013) with specialization in Computer Engineering. I am actively looking for full time opportunities as a Software Developer - preferably in the field of embedded systems/compilers.

Four years of relevant work experience, added with my relevant research work in UCI and successful completion of advanced systems related courses makes me believe that I am a strong candidate for this position.

My work with Alcatel Lucent (India) mainly involved low level API development. Here, I worked primarily on Linux based embedded systems developing features which require working knowledge of **device drivers, file systems, boot process**, Shell scripting, inter-process communication, and TCP/IP stack.

To add to this knowledge, I have also completed advanced courses like high performance computing, computer architecture, program analysis, memory models and compilers, system on chip software synthesis, advanced compiler construction and a study on Heterogenous architecture(**ARM Big.Little**).

I have worked on a research project on LLVM open source compiler under Prof. Michael Franz. This project aims to harness compiler-generated software diversity for defense purposes using a multi-compiler diversification engine. I worked towards automatically generating unique yet functionally identical binaries/mobile apps for each download request for a **ARM processor** (Panda board).

As a part of my acedemia, I have worked on emulating an **ARMv8 ISA** using **Foundation Models** and booting up a Linux kernel on top of that. As part of this project, I had to interact with Linaro for support with kernel image, rootfs and the cross-compiler.

During the summer of 2013, I interned at Broadcom (Irvine). Here, I developed a tool using the open source compiler infrastructure LLVM/Clang to perform static code analysis.

I look forward for an opportunity to demonstrate my abilities and would be eager to hear from you in the near future. Thank you for your time and consideration.
Eagerly looking forward to your reply,

Pavan Pattanada
pattanad@uci.edu
(949)-743-4307
www.linkedin.com/in/pavanpattanada