

## A Sample Research Proposal with Comments

During the proposal stage, students should discuss their research interests with CM faculty members, identify a research topic, conduct preliminary literature review and develop a project proposal. The proposal should discuss problem statement, objectives, research methodology, research activities, and a time schedule in about 3-5 pages. A sample proposal is attached here for your reference.

Sample proposal text	Comment
<p><u>A Conceptual Framework for Scheduling Constraint Management</u></p>	<p>Provide a brief and meaningful title to your project</p>
<p><b>1. Introduction</b>            Every construction project is unique and has its own operating environment and sets of technical requirements. As a result, the execution of a construction project is subject to numerous constraints that limit the commencement or progression of field operations, which invariably have significant negative impact on overall project performance. By definition, constraints refer to any condition, such as temporal/spatial limitations and safety/quality concerns, which may prevent a project to achieve its goals. Successful execution and control of a construction project relies on effective identification and management of constraints through master planning and short-term look-ahead scheduling. While the master schedule provides a global view of a project and the overall execution strategy, a look-ahead schedule offers a detail account of operational constraints and a detailed plan showing work to be done within a relatively short time window. Ideally, these detailed schedules should reflect actual field conditions and provide field personnel with operation instructions free of constraints and conflicts (Hinze 2008). This look-ahead scheduling and constraint analysis procedure is also a <u>critical component</u> of the last-planner methodology proposed by Ballard (2000). This research project will provide an overview of state-of-art schedule constraint analysis practice during look-ahead scheduling. In addition, it will propose a conceptual framework for managing constraints.</p>	<p>Background or introduction section provides a description of the basic facts and importance of the research area - What is your research area, the motivation of research, and how important is it for the industry practice/knowledge advancement?</p>
<p><b>2. Problem Statement</b>            The importance of developing a constraint-free and reliable work plan has long been recognized by the industry. However, numerous construction projects are still plagued by delays and cost overruns, which can frequently be traced to ineffective identification and treatment of constraints. First, when a constraint is not properly identified during scheduling, subsequent conflicts in the field are inevitable. Today's projects are becoming more and more technically complex and logistically challenging, which exposes construction operations to even more complex constraints. Second, the traditional scheduling methods, bar charts and Critical Path Method (CPM) which are widely used as a basis for constraint analysis, greatly limit our capability in modeling and resolving constraints</p>	<p>Problem statement provides a clear and concise description of the issues that need to be addressed - What is the specific problem in that research area that you will address (e.g. lack of understanding of a subject, low performance...)?</p>

# A Sample Research Proposal With Comments

**Tao Wei**



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