

Statement of the Problem

- Problem
 - Urban environments require more cellular towers due to high population density.
 - Traditional tower designs do not meet space constraints and aesthetic standards that are present in an urban setting.
- Solution
 - Design an innovative cell tower using IIT as the urban setting





Goals of the Project

- Develop a Cellular Tower for the Urban Environment
 - Monopole Structure
 - Aesthetically Pleasing
 - Promote Sustainability
- Prepare a proposal specific for the IIT Campus

Organization of the Team

Design Team Tasks

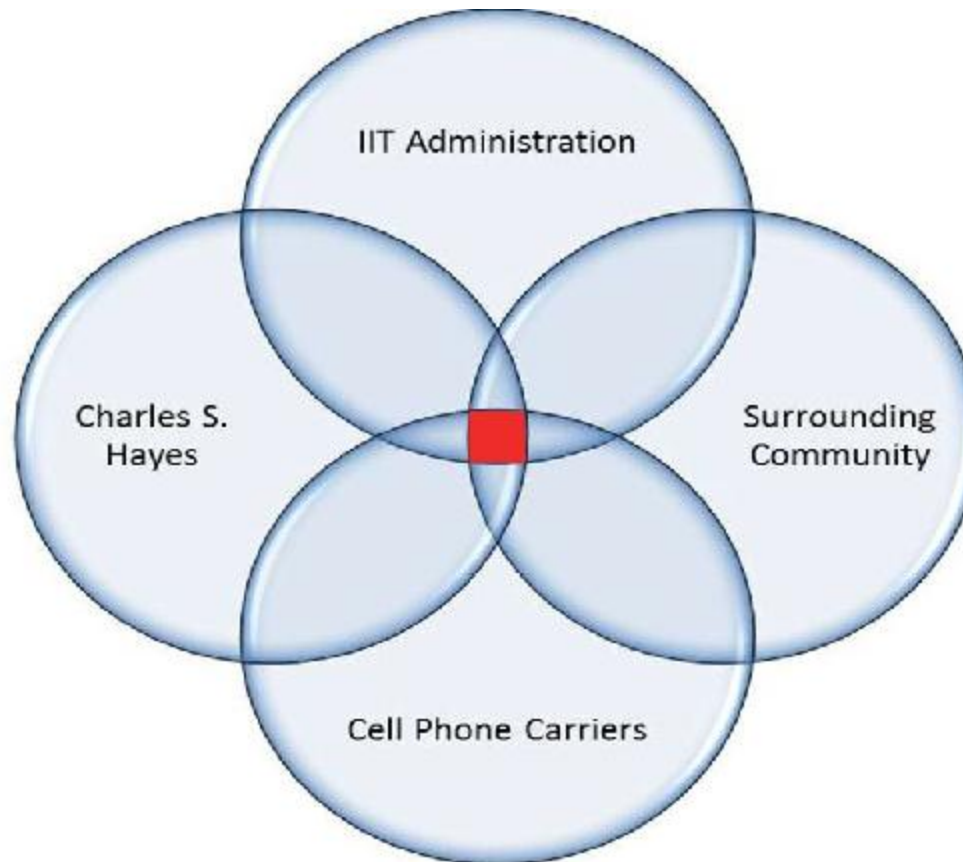
- Apply Design Criteria
- Prepare Design Specs
- Build Physical Model

Technology Team Tasks

- Research Cell Technology
- Gain Design Criteria
- Prepare Tower Proposal

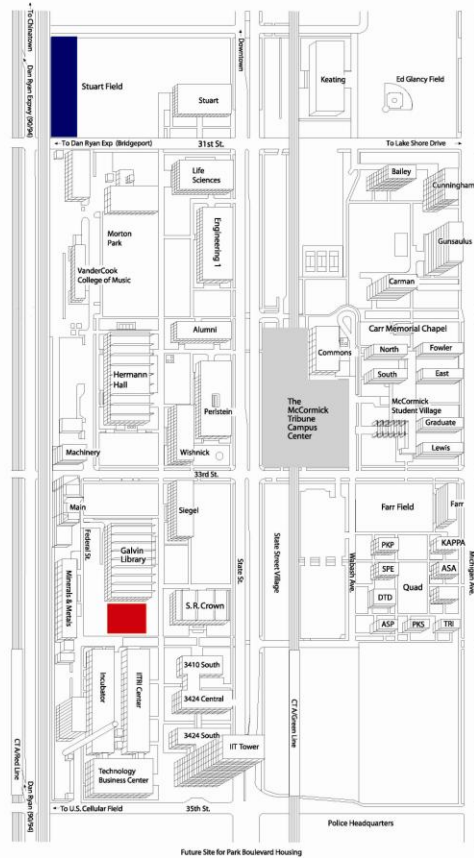


Stakeholders



Progress Towards Goals

- Researched existing
- Obtained informati
- Prepared surveys
- Analyzed possible s
- Investigated zoning
- Established design



ability practices





Major Challenges

- Zoning approval and possible variances
 - Solution: Making sure that we follow all the steps properly for a variance and that all the proper people are contacted in a timely manner
- Approval from IIT officials
- Approval of Design from sponsor
 - Solution: Develop a set of alternative schemes to show that the tower design is flexible and can be tailored to suit campus needs and wants, as well as the Sponsor's visions.



How You Can Help Us!

- Distributing survey to the IIT campus
- Identifying critical stakeholders
 - IIT
 - Surrounding community



Questions?