

## **1.541 Mechanics and Design of Concrete Structure**

### **Project Proposal**

#### 1-Title of Research Topic:

Behavior and Design of Earthquake Resistant Concrete Structures

#### 2-Name and Contact :

Bassam William Daher

#### 3-Text of Proposal:

Earthquakes are major events in lives of people and structures.

I propose to study the behavior and design of earthquake concrete structures. I am especially interested in the behavior of large structures (bridges, dams, tall buildings) where consequent damage and casualties can of considerable magnitude.

I intend to introduce the subject, and try to explore past, current and future trends in the topic.

I had the chance to have a textbook “Steel, Concrete , & Composite Design of Tall Buildings” by Bungale S. Taranath . In this book Seismic design of tall buildings is thoroughly explained, and I intend to focus on Tall Buildings and make good use of this textbook, among other sources.