

Dr. Gandhi's Research Project -- Summer 2018 **(Applicable to ALL Engineering Majors)**

Duration: Initial face to face meetings in early June 2018 and will then continue through the start of the Fall 2018 semester. This research project will involve both face to face meetings as well as virtual meetings via skype that will expose the students to working on virtual teams, which is an absolute necessity in today's workplace. The average duration will be 10-15hrs/week. All virtual meetings will be done via ZOOM.

Professor's Contact Information (Email and Phone Number): For more information, please feel free to contact Dr. Gandhi at Email: sj.gandhi@csun.edu or call at (818) 677-6157. If there is no answer, please leave a voicemail with your contact details (email or phone #) and I will call you back ASAP.

Research Focus: Opportunity Identification, Developing Customer Awareness, Determining Market Risks and understanding suppliers for Engineering Projects. These are topics that could be applicable to Aerospace, Automotive, Chip Design, Laptop Design and Manufacturing or any other technical product that you would like to work on.

ASK YOURSELF ----- DO YOU WANT TO LEAD OR FOLLOW? IF YOU WISH TO BE A LEADER, THEN THINK OF INVESTING YOUR TIME IN CREATING AN ENTREPRENEURIAL MINDSET FOR YOURSELF!!

How does it apply to your major & why is it important?

An Entrepreneurial mindset involves creating a competitive advantage for yourself in an increasingly competitive and changing business environment that engineering firms operate in. The expectations for the engineering graduate of 2020 (which is what YOU will be) has changed considerably. Creativity will become one of the top three skills workers will need. The figure below shows the top 10 job skills that the World Economic Forum has predicted will be needed by several professions, including engineers!!! **Make sure you have these skills and now is the time to start!!!**

Top 10 skills

in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



Source: Future of Jobs Report, World Economic Forum

Goals of this research project:

As part of this research project, The AIMS2 students will be doing research to understand what an entrepreneurial mindset is in an industry of their choice and how to go about creating that mindset. This will include **Opportunity Identification, Developing Customer Awareness, Determining Market Risks and obtaining funding for Engineering Projects to start and operate.** Without these key initiatives, most industries would not be profitable because for any project you work on, you need to be aware of who your customer is and what their needs are ---- otherwise no one will be interested in buying your product or technology that you have spent so much time and effort working on.

So, come and spend your Summer in 2018 working on research projects that will enhance your marketability when you look for an internship or a job and learn the skills that are vital to your employment in the 21st century. Flexible working hours and the opportunity to work remotely as long as you check in with the professor about your progress on a weekly basis. As mentioned before, this can be done via ZOOM.

Total # of students that will be accepted to the summer research program: 6 – 8