Course Title: Pre-employment Curriculum

<u>Instructor feedback:</u> Daily feedback sheets will be used to gather updates from the students

Videos will be taken to be used by the instructors.

Course description:

Title	Main topics/ Activity
What issues do we face in education?	Why do I need to know this?When will I ever use this?How is this relevant?
How do I learn how to learn?	Present education leaves many students not engaged in learning and finding it difficult to manage the complexities of life relating to the interface of society, schools, and business.
Needs:	The skills needed in our vastly complicated world, whether to earn a decent living or to be an active and informed citizen, are radically different from those required historically. Quite simply, the world has changed, and our schools remain stuck in time. "Knowledge workers" have become obsolete. What the world demands today are "smart creatives," the term that Eric Schmidt and Jonathan Rosenberg use to describe the kind of people Google needs to hire in their book How Google Works.
School experience: We will provide the missing skills like problem solving, creative and critical thinking, questioning, meta- cognition reflection, character development, business processing, financial literacy and societal values needed to succeed in today's environment.	The program is designed to focus on the skills needed in work and society in a four (4) week time frame. It will cover the skills needed at work and in society in such important areas of teamwork, attitude, planning, problem solving and communications.
Mission:	 Get students excited about learning (life-long learners). Have the reasoning skills to manage in today's society and begin to build a set of skills to use in multiple careers. Understand that problems are opportunities. The bigger the problem, the bigger the opportunity.

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Title	Main topics/ Activity
	Have students better prepared for college or a career.
Goal:	The goal of the school's program is the formation of skilled and discerning minds in preparation for higher education, careers and lifelong learning. They will understand that problems are opportunities. "The bigger the problem, the bigger the opportunity" (<i>Vinod Khosla</i>).
	Through its learning and collaboration, Project Academy guide them in becoming life-long learners and also educates its students for service in the community and in today's global civilization as part of human brotherhood.
Structure uniqueness The process complies with the common core learning standards	 Ownership mindset Think like an owner Cultural Engineering mindset Provide leadership & management of a project Growth mindset Your brain is like a muscle, use it or lose it Team mindset To be successful. need to work together Brand mindset Who are you and how to show the world

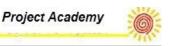
Values:

The school will foster a community based culture of a learning environment, use of visual thinking process with all treated as adults and with respect. A school vest will be worn to signify connection to each other. Key words are: Trust, Empathy, Kindness, Curiosity, Innovation, Persisting, Flexibility, Continuous learning, Humor and Taking responsible risk.

Life-Skills:

- Attitude (positive attitude, focus, emotions, flexible, moral leadership)
- <u>Social & emotional learning</u> (<u>character development</u>, <u>empathy</u>, responsibility, <u>self-esteem</u>)

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Title	Main topics/ Activity	
	lues, <u>listening</u> , trust, diversity, culture,) ,,, working like a	
Problem solving (creative & cr	itical thinking, decisions, planning, curiosity, reflection)	
Personal skills (financial literacy	, time management, communication)	
Business literacy (quality, proceed)	esses, matrices, reporting, <u>leadership</u> , judgement)	
Key Company Interface Email, Social networking, YouTube, Self-branding skills (Who you are), Networking		
Facilitators	The following team will support the groups learning	
Need to train local facilitator	during the project Bill Wolfson BSEE, MS in Physic	
Description: Learning through doing and discussion with other students.	The class project will focus on the chosen skills that occur during the team creation & problem solving process. The students will be challenged to be cognitively ready to learn during the process. Included as standards' will be forming the team and the problem-solving process.	
LEARNING OUTCOMES / OBJECTIVES How are we going to integrate character development?	 What are the learning outcomes? By the end of this course, the students will be able to: Clearly articulate the nature of the design process & problem solving See the World as a place of excitement and inspiration Use assessment strategy and feedback as learning tools Use of relevant soft-skills in their life to better interface with society Begin the steps to become a lifelong learner Understand the processes within a business and personnel finance Understand that problems are opportunities in life 	
Student's Responsibility: Taking responsibility for attendance and class participation.	If at any time you start to feel lost or behind in the course, don't panic or keep silent let us know so we can help.	

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Syllabus_After-school program

Title	Main topics/ Activity
Keeping a journal during the course: o Take notes o Questions to ask/ideas and reflections	Please let us know if we should adjust our communication style. Are we going too fast? Too slow? Are we being too techie?
Student activity	 We will support the students to buy and wear vests with the school logo Certain students will be given the opportunity to support other students in the learning process. These will be called master designers. Students are viewed as active authors of their own development
Weekly Schedule:	To Be Determine
Implementation: Areas of discussioncan be tailored to local needs such as the local community food needs. See the problem/Bug Frame it Research List possible solutions Pick a few Select Test Reflection Present solution Other possible problems that could be worked on are the Grand Challenge for engineering determined by the National Academy of Engineering.	The course will be done with hands on learning using methods from wPI/engineeringlens.org Values* Measurable team goals, roles, Deliverables * How will we measure success? * Expectations How are we going to work togethe? Handle conflicts?
Tasks:	Ice-Breaker Team creation Select problem Problem solving Testing-Reporting

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Title	Mai	n topics/ Activit	у
Course Rubrics Three areas of learning targets Knowledge Content Skills Processes Reasoning Thinking skills, character development	Assessment (learning students and communications) Badges as translated	targetsHow we surements & feed and targets) will be by unity giving the feed ars of competency ets (badges) for: Character Community Attention to detail	back skill level with back.
Course Expectations Team assignments and discussion board postings.	forums and complet Students are respon	ted to participate in one the assigned projections in the assigned projections are the difficulties arise in continuous.	ects on time. angements with
What Is a Design-centric culture? Should set up the following:	society, Understand	J	cted out-come.
One-hour Class Period Structure	Class Activities	Tied to the c	urriculum
 15 min. of class learning/discussion 30 min. of Exercise / Activities by the teams Break 	 Improv. Drawing ex Problem so Team build Socratic Qu 	olving ling games, poker	
Example of a 4-week schedule	e 7 hr /day		
Week 1 Week 1;	PP1	team, sports	s, <u>improv</u>

Project Academy

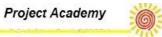
Syllabus_After-school program

Title	Main topics/ Activity
Week 2	Week 2
Week 3	Week 3
Week 4	Week 4
Student take away (Outcomes):	 Acquire self-awareness and apply self-management skills to achieve personal well-being and effectiveness Act with integrity and make responsible decisions that uphold moral principles Acquire social awareness and apply interpersonal skills to build and maintain positive relationships based on mutual respect Be resilient and have the ability to turn challenges into opportunities Be an outstanding employee for the company and grow in opportunity

Course details:

Major area	Theme
Introduction / Creating a	Attributes, Values, Teacher Skills and the relation to
learning collaborative in the	excellence in academics and the larger world of work.
classroom / pre-Assessment of	
engineering knowledge and	Developing the outcome goals for the class.
thinking skill awareness	
Work in teams	Part of Team ProjectCollaboration, decision making,
	brain writing
Problem framing and solving	Part of Hands on Learning understanding what is the true
Empathy	problem and tinkering with ways to solve the problem
Creative and critical thinking	Learn the tools of brainstorming, brain-writing, and decision
skills around the design process	making for divergent and convergent processing skills

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Syllabus_After-school program

Major area	Theme
Brain Plasticity Growth	we continuously are able to learn new things
mindset	Two 30 minutes discussions a total of 60 minutes spent
minaset	teaching not math but a single idea: that the brain is a
 Carol Dweck, Ph.D 	muscle . Giving it a harder workout makes you smarter.
Claude M. Steele Ph.D	That alone improved their math scores.
Claude IIII Clock I III.	
Habits of Mind	Built into projects and continuous discussion
Infusion of thinking skills	Create an appreciation for life-long learning by providing
	opportunities to develop creative and critical thinking skills
Dialogue	6 Hats How to create dialogue and not shouting
	matches.
Desta de la constitución de la c	Using dialogue question
Professionalism	Respectful dealing with others
Entrepreneurships / Innovation	Business processes Persistence, problems as
	opportunities, finding humor, accuracy in your work, remain open to continuous learning
Conclusions, Self-Assessment	Understand why you did certain things, What can you learn
Quality focus	from your actions to improve
Quality 10000	How can you use data to improve?
Community support	Get a partnership with industry that provides career
3 3 1 1 1	opportunity if we provide a person with good soft-skills.
 Job training 	Retail stores, Warehouses, etc.
 Internships 	· · · · · · · · · · · · · · · · · · ·
Technicians	Relationship with non-profits that focus on this area.
Apprenticeships	
Mentors	
	A to a section for a lift was D air and a
Mentor support option:	A team of mentors from different Business and
	organizations will be available to support the student. A
	mentor fair will occur where mentors present themselves to the students. The student will have to opportunity to pick
	someone they would like to get support from. These
	mentors will be trained in our program and how they could
	support a student.
	Manufacturing elements learned in the 4 weeks
Hand-Outs descriptions to	Community introduction
•	Business organizations Second doc.
organizations needed for	List of Life & Business skills
support:	LIST ST EITS & BUSINESS STATE

The conversation is structured by the use of four strategies: **predicting**, **clarifying**, **question generating/connecting**, **and summarizing**.

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