• **TO DO:**

- Goals for Sprint 2
- Sprint 2 Calendars
- Product/Target Specifications
- The Product Architecture Drawings
- Choose final concept & refine design requirements based on feedback
- Modify design requirements to create target specifications – at least one must reflect productivity!
- Start on Product Architecture Drawings
- Start thinking about materials

LOOKING AHEAD:

- Week 6 BEEST due 10/5 @ 11:59pm.
- Week 7 BEEST due 10/12 @ 11:59pm.

Turn these in before you leave

WEEK 7 DAY 1



Welcome to Sprint 2



Documentation from this Sprint goes in "5. Development of the Design"



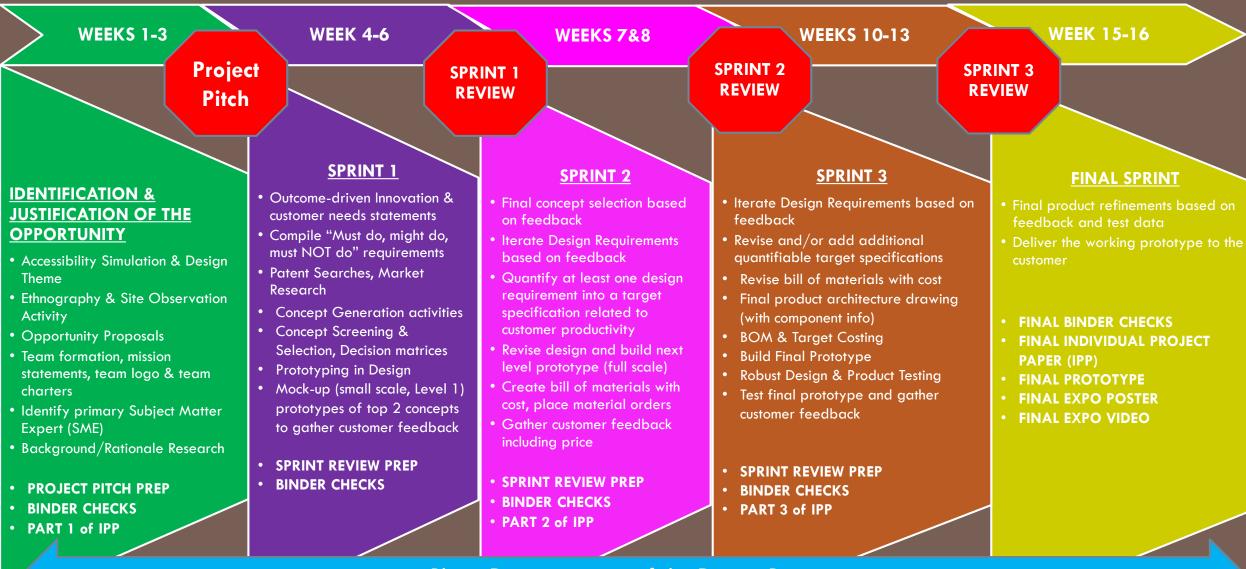


Photo Documentation of the Design Process

By the end of Sprint 2, your team will:

- Choose final solution concept to pursue
- Revise design requirements based on customer feedback
- Create target specifications
- Create a Product Architecture document
- Create a Bill of Materials
- Build a full scale (Level 2) model for customer feedback and potential pricing information

GOALS FOR SPRINT 2 WEEKS 7-9

SPRINT 2

- Final concept selection based on feedback
- Iterate Design Requirements based on feedback
- Quantify at least one design requirement into a target specification related to customer productivity
- Revise design and build next level prototype (full scale)
- Create bill of materials with cost, place material orders
- Gather customer feedback including price
- SPRINT REVIEW PREP
- BINDER CHECKS
- PART 2 of IPP



DEFINE the problem

ENGINEERING

COMMUNICATE

your solution

ITERATE

to improve your prototype

and evaluate your prototype IDENTIFY

constraints on your solution (e.g. time, money, materials) and criteria for success

BRAINSTORM

multiple solutions for the problem

the most promising solution

your solution

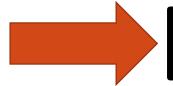
YOU **ARE HERE**



• How can customer needs/design requirements be translated into <u>precise</u> <u>targets</u> for the design work?

• How can the team agree on what constitutes success or failure of the design?

• How can the team <u>resolve trade offs</u> among inevitable product characteristics?



We need specifications!

Product Design and Development, Karl T. Ulrich and Steven D. Eppinger. 5th Edition, Irwin McGraw-Hill, 2012.



• How are these different from your design requirements you already have?

•Derived from all of the design requirements you have created so far but takes them to the next level!

Represent quantifiable, unambiguous agreement on what the team will consider a successful design that meets their design requirements and customers' needs.

WHAT ARE SPECIFICATIONS?

A set of requirements that spell out in precise, measurable detail WHAT the product has to do.

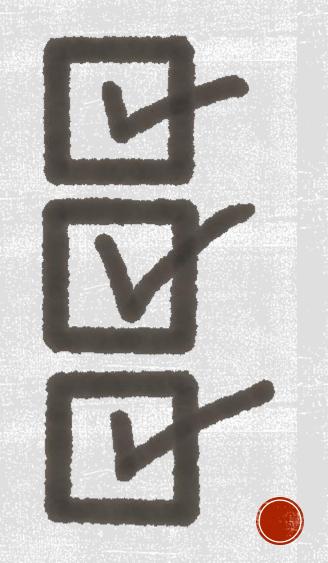


- A specification consists of a metric and a value.
- <u>Metric</u> = precise, directly observable, measurable characteristic of the product that reflects the degree to which a requirement has been met.
- How do we express the <u>value</u> of a metric? <u>A number and</u> <u>units</u>
- Examples:
 - Average time to assemble = METRIC
 - Less than 75 seconds = VALUE

- specification

- Total mass = METRIC
- < 1.4 kg = VALUE

WHAT ARE SPECIFICATIONS?



TARGET SPECIFICATIONS FOR BIKE SUSPENSION FORK

	METRIC	Units	Value
1	Attenuation from dropout to handlebar at 10hz	dB	>12
	Spring pre-load	N	650
3	Maximum value from the Monster	g	<3.4
4	Minimum descent time on test track	S	<11.5
5	Damping coefficient adjustment range	N-s/m	>100
	Maximum travel (26in wheel)	mm	43
7	Rake offset	mm	38
	Lateral stiffness at the tip	kN/m	>75
	Total mass	kg	<1.4
10	Lateral stiffness at brake pivots	kN/m	>425
			1.000
11	Headset sizes	in	1.125
			150
			170
			190
1 2	Ctaartuba langth		210
	Steertube length Wheel sizes	mm list	230 26in
	Maximum tire width	in	>1.75
	Time to assemble to frame		
		s list	<45 Zefal
	Fender compatibility Instills pride		
	Unit manufacturing cost	subj US\$	>4 <80
	Time in spray chamber w/o water entry	<u> </u>	
	Cycles in mud chamber w/o contamination	S	>3600 >25
	Time to disassemble/assemble for maintenance	k-cycles	<200
		s list	+
	Special tools required for maintenance UV test duration to degrade rubber parts	hours	hex >450
	Monster cycles to failure		
	Japan Industrial Standards test	cycles	>500k
		binary MN	pass
<u> 20</u>	Bending strength (frontal loading)	I IVIIN	>100

SAMPLE TARGET SPEC DOCUMENT







HOW DO WE CREATE TARGET SPECIFICATIONS?

Analyze each
design
requirement one
at a time



Create at <u>least</u>
one metric that
characterizes
that requirement



Decide on acceptable values for these metrics

1

REFLECT, REFINE, IMPROVE



Design Requirement	<u>Metric</u>	<u>Units of Measure</u>	<u>Value</u>
1.	a.	a.	a.
	b.	b.	b.
	c.	c.	c.
2.	a.	a.	a.
	b.	b.	b.
	c.	c.	c.

Guidelines for Values:

- 1. At least X establishes lower bound but higher is better.
- 2. At most Y establishes an upper bound but lower is better.
- 3. Between X and Y establish upper and lower bounds.
- 4. Exactly X any deviation from exact value means lower performance (very constraining)
- 5. Discrete Values of X like S, M, L

Example of Target Specifications in EGE 2123

Design Requirement	Metric	Unit of Measure	Value
Increase Productivity	Time per Bottle	Seconds	Average Time < 18.2 s (Current Average)
Reduce Back Pain	Survey - "Better or Worse?"	% People who Say it's Better	50% or More Say it's Better
Reduce Wrist Pain	Suvey - "Better or Worse?"	% People who Say it's Better	50% or More Say it's Better
Custom Set-Up	Adjustable Components for Parts in Reach	ft. and in.	In Reach of Customer (<≈3ft)
Decrease Bending/Reaching	Height Differences	ft. and in.	< Current Reaching Distance of 3ft
Conserves Space in Aisles	Surface Area of Work Area	ft ² and in ²	< Current Space Usage of 24 ft ²
Access to the Bottles	L x W x H of Boxes Used	ft. and in.	At Least 20.75 x 23 x 19.5
Final Cart	L x W x H of Cart	ft. and in.	Accommodate Box Size (20.75 x 23 x 19.5)
Less than \$200	Amount of Money	Dollars (\$)	< \$200
Less than 10 Components	Number of Components	Number (#)	< 10 Parts
Materials from Approved Vendors	Approved or Not	% Approved Receipts	100%

 The assignment of the functional elements of a product to the physical building blocks of the product.

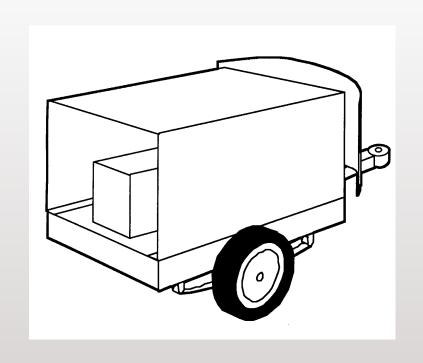
Physical Elements

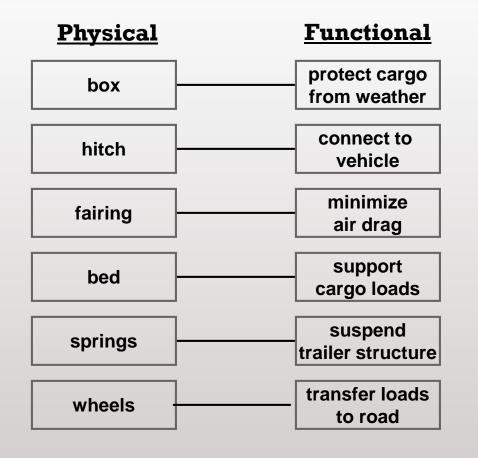
Functional Elements

Parts, components, subsystems that implement the product's functions

Individual operations and transformations that contribute to the overall performance

WHAT IS PRODUCT ARCHITECTURE?





TRAILER
EXAMPLE:
MODULAR
ARCHITECTURE

- The purpose is to define the basic building blocks of the product in terms of what they do and how they interface with the rest of the device.
- Allows detailed design and testing of the individual building blocks to be assigned to different teams and carried out simultaneously – divide and conquer!!

MODULAR PRODUCT ARCHITECTURES



Best Case Scenario:

- Each component (module) implements only one function
- Interactions between modules are few and well-defined



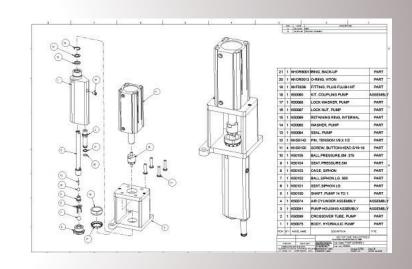


Allows a design change to one module without requiring changes to other modules.



CREATE A PRODUCT ARCHITECTURE DOCUMENT

- Prepare a computer generated, dimensioned assembly drawing of the product as a whole – all parts numbered and in their assembled positions.
- Prepare descriptions of each numbered component documenting function, fabrication/purchase details and interactions/connections with other components.



- If a component will be fabricated, indicate the material to be used and fabrication method.
- If purchased, indicate proposed vendor.



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Documentation from this Sprint goes in "5. Development of the Design"

WEEK 7 DAY 1 RECAP



Welcome to Sprint 2



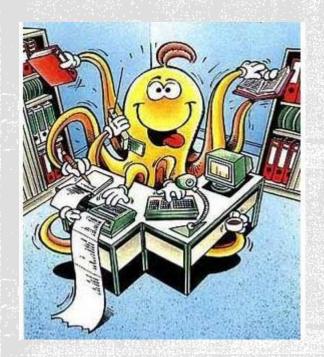
• **TO DO**:

- Building the Level 2 Prototype
- The Bill of Materials and ordering supplies
- Work Time Product Architecture, BOM, Building Level 2 Prototype
- Discuss first drafts of Product Architecture & BOM before you leave

LOOKING AHEAD:

- BOM must be finalized by the end of next class
- Week 6 BEEST due 10/5 @ 11:59pm.
- Week 7 BEEST due 10/12 @ 11:59pm.

WEEK 7 DAY 2





LEVEL 2 PROTOTYPE

PROTOTYPING IN EGE 2123

In our course we will be creating prototypes at three different stages of our design process:

Small-scale Mock-Up (Level 1) Small-scale model used to communicate and compare concept alternatives (you will build & compare your 2 selected concepts)

- Used to represent form of design concept for feedback
- Typically built with cardboard, tape, clay, re-purposed materials, etc.



Full-scale Mock-Up

- · Full-scale model of final concept selected
- · Provides more emphasis on function of design concept
- May be built with materials similar to scaled model but may also included 3D printed parts, off-the-shelf components from hardware store, etc. to create a more functional model
- Used to provide the customer a hands-on experience while gathering feedback



Working Prototype (Level 3)

- Full-scale, fully-functional final design built according to the product architecture assembly drawings and the detail design drawings, using materials and fabrication methods specified on the bill of materials.
- Should be robust enough so that customer would able to use this prototype.
- Will be used to demonstrate your design at the final milestone review.



TEAM NAME	DATE

EGE 2123: Entrepreneurial Engineering Design Studio

BILL OF MATERIALS and ORDER SUBMISSION FORM

Must be completed and submitted before you leave class today. Include a screenshot of each component OR of your cart (DON'T PLACE ANY ORDERS YOURSELVES).

	COMPONENT	<u>VENDOR</u>	<u>ITEM NAME</u> ≟	<u>Description</u> ²	Quantity	Price/Unit
1						
2						
3						

- Complete one row for every component (even if you will fabricate it).
- Talk with the instructors when you think you have this complete.
- Raw materials for fabrication can be purchased directly and will be reimbursed with valid receipts.

BILL OF MATERIALS AND ORDERING PREP





APPROVED VENDOR LIST

PRODUCTS	VENDOR	WEB ADDRESS
Miscellaneous	AMAZON PRIME**	www.amazon.com
Electronics, 3D printing supplies	Micro Center	www.microcenter.com
Office Supplies	Staples	www.staples.com
Plastics, Metal Supplies	McMaster-Carr	www.mcmaster.com
Hardware	Home Depot	www.homedepot.com

To ensure prompt delivery of your building materials, pay special attention on *Amazon* to only those items that are included in the *Amazon Prime* category. If the item is not Amazon Prime choose another vendor to secure your items in a timely manner. You don't want to be sitting around waiting for your components to be delivered while you're supposed to be building.

Please attach a screen capture of your cart(s) containing all products you wish to order directly to your Bill of Materials/Order Submission form.





Amazon's Choice

Amram Comfort Grip Standard Tag Attaching Tagging Gun | Fasteners Barbs

by AMRAM

\$11⁵⁹ \$15.99 *Prime*



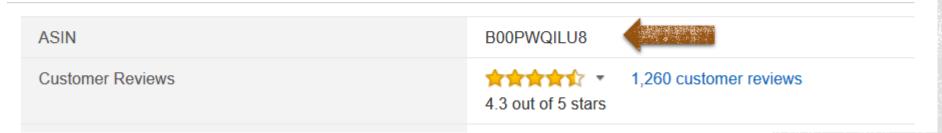
Get it by Monday, Mar 20

FREE Shipping on eligible orders

More Buying Choices \$11.59 (2 new offers)

- On the item description page find the ASIN #
- Include the ASIN # in the 'Description' column of your Bill of Materials/ Order Submission form

Additional Information



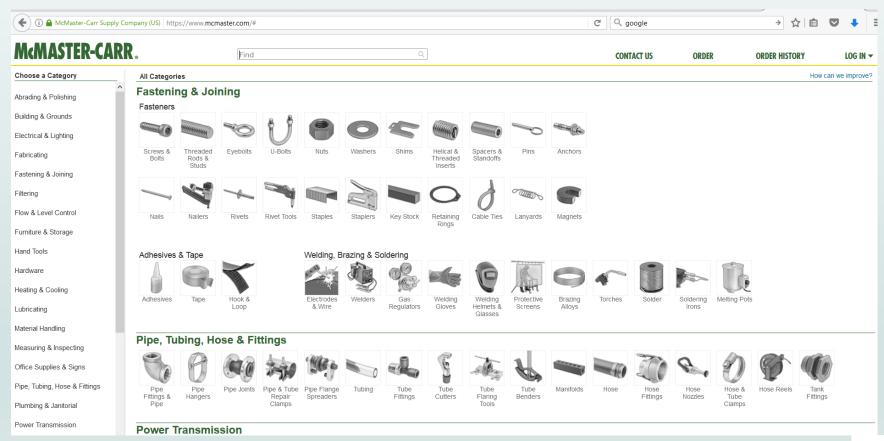
AMAZON ORDERS

Be sure the item that you are ordering is designated as





For metal & plastic components first try Home Depot...



 Check out the vast array of products that McMaster-Carr offers, both plastic and metal.





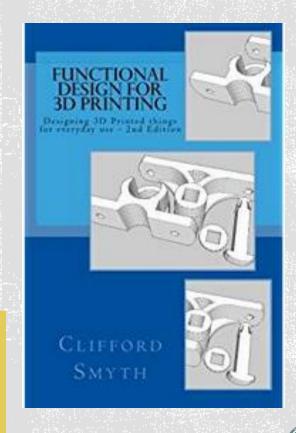
- Files for printing MUST be exported in .STL format.
- Be sure you consider the printer build capacity when deciding if your part should be 3D printed or fabricated elsewise.





Submit your .stl files to instructor on flash drive.

Did you consider 3D printing??



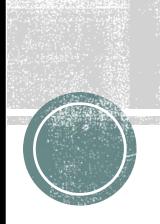
The SourceAmerica Design Challenge is a national engineering competition to design workplace technology for people with disabilities. High school and college students team with an organization that employs people with disabilities or an individual with a disability to invent a process, device, system, or software that creates a more productive work environment. This service learning opportunity develops engineering, communication, writing, math, presentation, and social skills while helping the community and competing for cash prizes.

One of the previous winners:

Source America Design Challenge Previous Winner

SourceAmerica DESIGN CHALLENGE

Designing Technology So Everyone Can Work



General Requirements

- Each student team must register on the SourceAmerica Design Challenge website.
- Your team must include a student leader, student team members, a coach and a subject matter expert (SME). The SME is the person with a disability who will use your invention.
- High school teams must be comprised of high school students and collegiate teams must be comprised of college students. However, students do not have to be enrolled in the participating school. They may also be home-schooled or a part of a community club.
- Each team must develop a piece of technology and/or a process designed to overcome a workplace obstacle for a person with a disability.
- Each team is required to meet all mandatory deadlines and submit all appropriate materials described in the timeline.
- Your invention or process must be tested, used by your SME and implemented in the workplace.

 Projects must be workplace/employment-related or they will be disqualified.



Registration: August 29 to October 11, 2017

- The **student team leader** must <u>register</u> for the Design Challenge between August 29 and October 11, 2017. After registering, your student team leader will receive a team login and password for our file sharing system, Egnyte. This will allow you to upload your documents and project at the appropriate deadlines. The file sharing system can be found at https://designchallenge.egnyte.com.
- Each team and the coach will have access to the team's folder. Coaches with multiple teams will have access to folders for all their teams; however, each team leader will only have access to his or her team's folder.
- To start your project, use your team's information to log into the Egnyte portal, download the required forms from the "Forms" folder and upload the completed forms to your team folder.



Select your team Deader and go to the web-site:

https://www.sourceamerica.org/design-challenge/student-teams

Design Challenge Registration

Number *

Your coach will be a teacher, counselor or interested adult who will guide your team of students throughout the project Winners Home Registration Student Teams Nonprofit Agencies In the News FAOs Contact Us Coach's Last Name * Only one registration is needed per team. Have the team leader register on behalf of the team by filling out the form below. Coach's Email * The team leader will receive the team login to Egnyte via email. This login and password is to be shared by the team. For assistance with registering, please contact Charissa Garcia at cgarcia@sourceamerica.org. Coach's Phone Number * Are you registering as a V high school or college - Select -Organization (School or team? * Group Name) * Team Name * School Address * Please remember this is how your team will be referenced in announcements and press releases. For example, "The Lincoln High Engineers" sounds a bit better than "Team 12." Be creative but professional. School City * Team Leader's First Name * - Select -School State * Your team leader is a student who will manage the team throughout the project. School Zip * Team Leader's Last Name * Has your organization Select participated before? * Team Leader's Email * How did you learn about the SourceAmerica Design Challenge? * Team Leader's Phone

Coach's First Name *

Submit

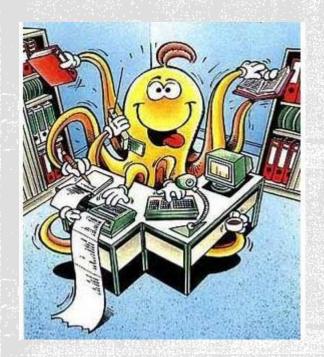
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LOOKING AHEAD:

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WEEK 7 DAY 2 RECAP





• **TO DO:**

- Entering the Source America Design Challenge must be done before you leave today! (M/W ONLY)
- Bill of Materials must be finalized today! Turn in before you leave so we can get supplies ordered.
- Work Time Product Architecture, BOM, Building Level 2 Prototype

LOOKING AHEAD:

- Week 7 BEEST due 10/12 @ 11:59pm
- Week 8 BEEST due 10/19 @ 11:59pm
- Part 2 of IPP due 10/22 @ 11:59pm

WEEK 8 DAY 1





The SourceAmerica Design Challenge is a national engineering competition to design workplace technology for people with disabilities. High school and college students team with an organization that employs people with disabilities or an individual with a disability to invent a process, device, system, or software that creates a more productive work environment. This service learning opportunity develops engineering, communication, writing, math, presentation, and social skills while helping the community and competing for cash prizes.

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Solutions

Mission



Resources

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Number *

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Coach's First Name *

Submit

Soon after submitting the registration form, the team leader will receive an email with an invitation to create your EGNYTE file-sharing account...



Invitation to collaborate using Egnyte

Thank you for registering for the SourceAmerica Design Challenge.



- When you login to EGNYTE, find the folder
 2016-17 College Design Challenge
- Find the <u>Forms and Instructions</u> folder
- Access the <u>For Registration</u> folder

Within the folder you access the remaining forms, documents, survey link, and instructions to complete your team's registration.





<u>Share</u>	Shared » 2016 -2017 College Design Challenge » Forms and Instructions » For Registration							
Upload Dow	riload Send Copy Move Delete Rename New Folder Folder Permissions Embed				Tag	Lock Unlock		ore Defaults
Туре	File Name -	Date	Size (KB)	Owner		Note	Tag In	ifo
- w	DAworksheet.docx	Sep/09/16 19:40	85	Charissa Garcia				
	Media Release Instructions.docx	Sep/09/16 19:40	14	Charissa Garcia				
PDF	Media Release.pdf	Sep/09/16 19:02	619	Charissa Garcia				
W	MentorSummary.docx	Sep/09/16 19:41	85	Charissa Garcia				
	Roster (1).xlsx	Sep/09/16 19:41	16	Charissa Garcia				
m w	Roster Instructions.docx	Sep/09/16 19:26	54	Charissa Garcia				
W	SAworksheet.docx	Sep/09/16 19:28	85	Charissa Garcia				
	Survey and Instructions.docx	Sep/09/16 19:44	13	Charissa Garcia				
				CONTRACTOR OF THE PARTY OF THE		encorrena		





Disability Awareness Worksheet

Directions:

- · Fill out one sheet per team
- Answer each of the following questions in your own words. Maximum 5 sentences each.
- Once completed save the worksheet as "DAworksheet_TEAM ID#"
- Then upload the completed worksheet to your team folder.
- Access your team folder by navigating to Shared » 2016-2017 High School Design Challenge or Shared » 2016-2017 College Design Challenge and finding your team ID number.
- 1. What does people first language mean?
- 2. What is the JWOD act?
- 3. What is the Americans with Disabilities Act?
- 4. What are some of the barriers you see in the workplace for people with disabilities?
- 5. Name three common technologies that help people with disabilities at work.
- 6. The unemployment rate for people with disabilities is high. Why do you think that is?

DAWorksheet.docx

(Must upload completed worksheet into team folder, see specific naming convention at left)

In your team binders you have the Source America Disability Awareness handout.



- ✓ Download the form: Media Release.pdf
- ✓ Each team will need a form signed for:
 - Each team member
 - Both instructors (coaches)
 - Your identified SME (may be Steve, Tim, supervisor or STEP client, etc. --- anyone who may appear in photos or in the video showing the final working prototype).
- ✓ Name the PDF file containing ALL signed Media Release Forms: "Media_Release_Forms_Team#"
- ✓ Upload this PDF file containing all the signed releases into the team folder.

MEDIA RELEASE FORMS

All release forms must be scanned into a **single PDF document** (see naming convention at left)







SourceAmerica Mentor Meeting Summary

Directions:

- Fill out one sheet per team.
- Answer each of the following questions in your own words. Maximum 5 sentences each.
- Your mentor can be one of the <u>SourceAmerica</u> Engineers, a person at the nonprofit agency or someone acting in as an advisor. Your mentor is typically someone other than your coach but in the situation were an additional person is not available you may use your coach as your mentor.
- Once completed save the worksheet as "MentorSummary_TEAM ID#"
- Then upload the completed worksheet to your team folder.
- Access your team folder by navigating to Shared » 2016-2017 High School Design Challenge or Shared » 2016-2017 College Design Challenge and finding your team ID number.
- 1. What is the name of your SourceAmerica mentor?
- 2. When did you communicate with your mentor?
- 3. How did you communicate with your mentor? (Phone, Email, Etc.)
- 4. Explain how your mentor helped you.

MentorSummary.docx

(Must upload completed worksheet into team folder, see specific naming convention at left)

Your team can choose either Steve Slayton or Tim Kachmarik (STEP) or Dr. Huff or Prof. Morano as your mentor.



- Team Name
- Team ID: This team ID # was emailed to the team leader who originally registered the team.
- School name, address, and phone #

Non-profit: Services to Enhance Potential (STEP)

32229 Schoolcraft Road

Livonia, MI 48150

- Each team member:
 - ✓ FIRST and LAST NAME (Legal names required for travel arrangements for Finalists.
 - ✓ Home address of each team member (this will be the address any monetary prize would be mailed to).
 - ✓ Email and phone #'s
- For coaches, please use LTU address, email, and phone #'s:

✓ Heidi Morano <u>hmorano@ltu.edu</u>

(248) 204-2588

✓ Cristi Bell-Huff

cbellhuff@ltu.edu

(248) 204-2609

TEAM ROSTER

The roster will be <u>saved</u>
<u>as an Excel file</u>, not a
PDF.

DTO	, JK							
A A	В	С	D	E	F	G	Н	1
1					Team I	Roster		
Team Name	Example Team							
Team ID#	1000	2						
Title	First Name	Last Name	Street	City	State	Zip Code	Phone	Email
High School	Happy High School		123 Happy Lane	Vienna	VA	22182	123 123 1234	
Nonprofit	Amazing Nonprofit Inc		123 Main Road	Vienna	VA.	22182	703 584 3940	
Coach	Bobby	Joe	123 Happy Lane	Vienna	VA.	22182	123 123 1234	Happy@HappyHS.edu
Nonprofit Contact	Jane	Smith	123 Main Road	Vienna	VA.	22182	703 584 3940 x 123	Smith@AmazingInc.org
1 SME								
2 Team Leader								
3 Team Member 1						- 4		
4 Team Member 2								
5					J)			
6					Alw .			
6 7				-	P.			



Who is SourceAmerica Worksheet

Directions:

- · Fill out one sheet per team.
- Answer each of the following questions in your own words. Maximum 5 sentences each.
- Once completed save the worksheet as "SAworksheet_TEAM ID#"
- Then upload the completed worksheet to your team folder.
- Access your team folder by navigating to Shared » 2016-2017 High School Design Challenge or Shared » 2016-2017 College Design Challenge and finding your team ID number.

- 1. What is the mission of SourceAmerica?
- 2. What is the AbilityOne program?
- 3. What kind of jobs are created for people with disabilities through the AbilityOne program?

SAWorksheet.docx

(Must upload completed worksheet into team folder, see specific naming convention at left)







When you have all 5 documents uploaded into your team folder, the final step for registration is to take a pre-project survey.

Pre-Project Survey Instructions:

Please have each student take the following survey: https://www.surveymonkey.com/r/7TD2JG9

Only the students need to take the survey.

• **TO DO:**

- Mid-Project Teamwork Assessments
- Work Time Product Architecture, BOM, Building Level 2 Prototype
- Finish the Level 2 Prototype by next class

LOOKING AHEAD:

- Week 7 BEEST due 10/12 @ 11:59pm
- Binder Check #3 NEXT CLASS
- Sprint 2 Reviews 10/18 (M/W) and 10/19 (T/Th)
- Week 8 BEEST due 10/19 @ 11:59pm
- Mid-Project Teamwork Assessments due 10/18 @ 11:59pm
- Part 2 of IPP due 10/22 @ 11:59pm

WEEK 8 DAY 2





You've made it about half way...

50%...

Good time to reflect on how the team is functioning...

On Blackboard, under the Assignment tab, find:

COLLABORATIVE WORK SKILLS:

Teamwork Evaluation



Collaborative Work Skills: Teamwork Evaluation

Availability: Item is not available. It will be available after Feb 21, 2017 1:30 PM.

This survey serves to provide the instructors with confidential feedback as to how your team is functioning. Do not discuss how you scored each other. Confidentiality is needed to ensure scores reflect performance and not personal relationships among students.

Each team member will evaluate *themselves* AND every member of their team in each of the categories:

- Working with Others
- Focus on the Task
- Attitude
- Time-management
- Quality of Work
- Contributions
- Problem Solving



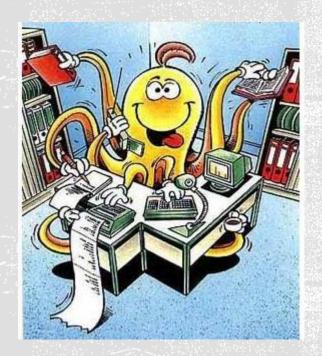
- TO DO:
 - Requirements for Sprint 2 Review
 - In Class Consulting Day with Prototypes
 - Binder Check #3
 - Work Time Sprint Review Prep, Teamwork Assessments, etc.. (there is plenty to do!)

E-mail slides by 11 am that day

LOOKING AHEAD:

- Sprint 2 Reviews 10/18 (M/W) and 10/19 (T/Th)
- Week 8 BEEST due 10/19 @ 11:59pm
- Mid-Project Teamwork Assessments due 10/18 @ 11:59pm
- Part 2 of IPP due 10/22 @ 11:59pm

WEEK 9 DAY 1





TO DO:

SPRINT 2 Reviews

LOOKING AHEAD:

- Week 8 BEEST due 10/19 @ 11:59pm
- Mid-Project Teamwork Assessments due 10/18
 @ 11:59pm
- Part 2 of IPP due 10/22 @ 11:59pm
- Week 9 BEEST due 10/26 @ 11:59pm

WEEK 9 DAY 2

