Project Hazard Assessment- Project Narrative

Name of Project: Digital Beamsteering Phased Array		Date of submission: April 1st, 2022
Team member	**Phone number**	**E-mail**
Andrew Cayson	(850) 524-3458	ac12m@my.fsu.edu
Tiernen Pan	(305) 989-7609	tjp17@my.fsu.edu
Christian Balos	(941) 348-4615	cb16t@my.fsu.edu
Katheryn Potemken	(240) 252-8118	kfp18@my.fsu.edu
William Snyder	(904) 570-8928	wjs18b@my.fsu.edu
Faculty mentor	**Phone number**	**E-mail**
Dr. Uwe Meyer-Baese	(850) 410-6220	umb@eng.famu.fsu.edu
Dr. Bayaner Arigong	(850) 410-6410	barigong@eng.famu.fsu.edu

Rewrite the project steps to include all safety measures taken for each step or combination of steps.

1. Soldering
    a. Safety controls are planned by both the worker and supervisor.
    b. A second worker knowledgeable of the task and hazards is in the vicinity (buddy system).
    c. Proceed with supervisor authorization
2. Configuring I/O Ports
    a. Safety controls are planned by both the worker and supervisor.
    b. Proceed with supervisor authorization.
3. Program FPGA to create a clock that feeds into the DDS to create a sinusoidal signal and calculate the phase of slave antennas from the master antenna.
    a. Safety controls are planned by both the worker and supervisor.
    b. Proceed with supervisor authorization.
4. Connecting Hardware Together
    a. Safety controls are planned by both the worker and supervisor.
    b. Proceed with supervisor authorization.
5. Drilling holes in junction box
    a. Safety controls are planned by both the worker and supervisor.
    b. A second worker knowledgeable of the task and hazards is in the vicinity (buddy system).
    c. Proceed with supervisor authorization
6. Testing components using DC power supplies, oscilloscope, spectrum analyzer, etc.
    a. Safety controls are planned by both the worker and supervisor.
    b. A second worker knowledgeable of the task and hazards is in the vicinity (buddy system).
    c. Proceed with supervisor authorization

Thinking about the accidents that have occurred or that you have identified as a risk, describe emergency response procedures to use.

- Always call emergency response for severe accidents.
- Locate the nearest fire extinguisher if a fire breaks out.
- When connecting hardware make sure that there are no active wires and everything is turned off. Only turn on the system when hardware assembling is complete and ready for testing. We will have a buddy system to make sure that everything goes smoothly
- When drilling holes in the junction box keep body parts out of the way of the drill. We will have a buddy system to make sure that everything goes smoothly. Depending on the severity, use a first aid kit or go to the emergency room.
- When soldering make sure not to touch the soldering iron tip, components, or board while it is still hot. If burned the person injured will follow first aid procedures for a minor burn starting with running cool water over the burn. If a severe burn occurs go to the emergency room.

List emergency response contact information:

- Call 911 for injuries, fires or other emergency situations
- Call your department representative to report a facility concern

Name	Phone number	Faculty or other COE emergency contact	Phone number
Natalie Cayson	(305) 298-6195	Dr. Bruce Harvey	(850) 410-6451
Allison Fox	(828) 606-0904	Dr. Jerris Hooker	(850) 410-6463
Karly Evans	(407) 761-0823	Dr. Uwe Meyer-Baese	(850) 410-6220
Daniel Murphy	(808) 230-1382	Dr. Oscar Chuy	(850) 410-6468

Safety review signatures

Team member	Date	Faculty mentor	Date
Andrew Cayson	04/01/22	Dr. Uwe Meyer-Baese	04/01/22
Tiernen Pan	04/01/22	Dr. Bayaner Arigong	04/01/22
Christian Balos	04/01/22	Dr. Jerris Hooker	04/01/22
Katheryn Potemken	04/01/22		
William Snyder	04/01/22		

Report all accidents and near misses to the faculty mentor.