

## LEAP Report – Competition Engagement (HS) Competitive Event Leadership Experiences

Competitive Event		

Participant/Team ID#

The Studen	t Leadership Challenge*	Landaushin Europianaa
Practices	Behaviors	Leadership Experiences
	Follow through on promises and commitments	
	Set a personal example through actions	
Model	Align others with principles and standards	
the Way	Seek feedback about impact of actions	
	Make sure teammates support common values	
	Talk about values and principles	
	Look ahead and communicate future ideas	
	Describe ideal capabilities	
Inspire	Talk about how future could be improved	
a Shared	Be upbeat and positive	
Vision	Communicate purpose and meaning	
	Show others how their interests can be realized	
	Challenge current skills and abilities	
	Break projects into smaller do-able portions	
Challenge	Search for innovative ways to improve	
the	Ask "What can we learn?"	
Process	Take initiative in experimenting	
	Help others try out new ideas	
	Foster cooperative relationships with others	
	Actively listen to diverse viewpoints	
Enable Others to Act	Treat others with respect	
	Support the decisions other people make	
	Give people freedom and choice	
	Provide leadership opportunities for others	
	Praise people	
	Encourage others	
Encourage the	Express appreciation for people's contributions	
	Publicly recognize alignment with values	
Heart	Celebrate accomplishments	
	Creatively recognize people's contributions	



## LEAP Report – Competition Engagement (HS) General Leadership Experiences

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Participant/Team ID#

Leadership Categories	Leadership Experiences
Leadership Roles	
Community Service/ Volunteer Experiences	
Leadership Development	
College Career Planning	

	Student Leadership Challenge* tices and Behaviors
	Follow through on promises and commitments
Model the Way	Set a personal example through actions
	Align others with principles and standards
	Seek feedback about impact of actions
	Make sure teammates support common values
	Talk about values and principles
	Look ahead and communicate future ideas
a sion	Describe ideal capabilities
oire a	Talk about how future could be improved
Inspire a Shared Vision	Be upbeat and positive
S	Communicate purpose and meaning
	Show others how their interests can be realized
Challenge the Process	Challenge current skills and abilities
	Break projects into smaller do-able portions
	Search for innovative ways to improve
	Ask "What can we learn?"
	Take initiative in experimenting
	Help others try out new ideas
Enable Others to Act	Foster cooperative relationships with others
	Actively listen to diverse viewpoints
	Treat others with respect
	Support the decisions other people make
	Give people freedom and choice
	Provide leadership opportunities for others
Encourage the Heart	Praise people
	Encourage others
	Express appreciation for people's contributions
	Publicly recognize alignment with values
шт	Celebrate accomplishments
	Creatively recognize people's contributions

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## Installation

Download links are at the bottom of the documentation if needed

The executable takes a while to load when being run the first time

- 1. Download Executable (should have a .exe extension)
- 2. Open Executable
- 3. If a windows defender pop-up occurs, click more info then click run anyway

Program can be run using python 3.7 or 3.6 but the user should have python installed and run the command "pip install eel" in the command prompt beforehand.

Then, open the main.py script and run it.

The easiest way to run the program is to simply run the windows executable(.exe).

Windows 64 bit and a web browser is all the is needed to run the executable.

# System Requirements

- Windows 10 64 bit
- At least one web browser installed
- (Optional) Have chrome set to default web browser
- (Optional, not needed if running the executable) Have python and eel installed

# All Script Commands For Console

Commands were designed to be as simple as possible to avoid unnecessary complications

See the usage section for more information about proper usage on the commands below

- Move used to move the antenna to a desired position.
- Stow used to move the antenna to the position 0, 0.
- Begin used to start logging all commands and antenna information to a specified location.
- End used to end the logging of all commands and antenna information.

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- Collect used to begin data collection and logging of dark matter values.
- Load used to load a custom script and run in the console automatically.
- Save used to save a position as a variable and call it later.

# Basic Syntax and Output Information

- All commands should not be capitalized in any way.
- To run the command entered in the console input, simply press the enter key.
- When providing a file name for logging or script execution, please do not use any file with a space in the name.
- ANY file extension can be used when supplying or loading a document.
- All position output is formatted in x and y coordinated Ex. 2, 34.
- The first value represents azimuth.
- The second value represents elevation.

# **Angle Limitations**

The antenna's azimuth must be between 0 and 135 degrees (including 0 and 135)

The antenna's elevation must be between 0 and 70 degrees (including 0 and 70)

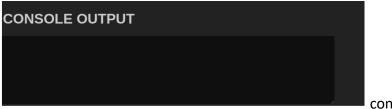
<u>User will be warned if attempting to move the antenna beyond these limitations</u>

## Basic GUI Item Location

Console Input – Used to enter commands into the interface

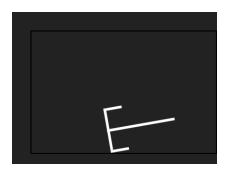


Console Output – Location where interface information is output



console output image

Antenna Visualization (Vertical Only) - Location where the visual representation is located



Command Usage

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## Move command usage:

• Example: move 10 10

Numbers can be decimals

#### Stow command usage:

• Example: stow

Will move to 0 0

Executes Command A0 OFF

#### Begin command usage:

• Example: begin log.log

 If no file location is specified, the log location will be at "defaultLog.log"

#### End command usage:

• Example: end

Will end the logging of only interface data collection NOT data collection

## Collect command usage:

- Example: collect data.log 13
- A specified time in seconds after the log location must be present
- Data collection will automatically end after the specified amount of time
- Any commands entered before the collection has ended will be run immediately after the data collection ends.
- If the time is over 240 seconds the program will move the antenna +1 degree of azimuth every 240 seconds. (This is done to continue collecting data on drifting objects)

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## Load command usage:

- Example: load script.txt
- Script execution will automatically begin after the command is entered
- See the Script Syntax section for details on proper syntax when writing scripts
- Any unreadable line will cause the script to stop before continuing

## Save command usage:

- Example: save p1 5 5
- Typing in the name of the variable will automatically move the antenna to that saved position

# Script Syntax

All lines of the script must not be separated by any character.

## Example:

```
Incorrect script:
```

```
move 10 10;
```

stow;

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Correct script:

move 10 10

stow

#### NO SPACE BETWEEN LINES

# Script Examples and Source Code/Nonstandard libraries

Script examples can be downloaded from here

https://drive.google.com/open?id=19B MnPyeCs Vhd0hwOiqP36cNYIsxk2j

Source code can be downloaded from here

https://drive.google.com/drive/folders/1eYxs7iiWNiaPVzykCpJKGf5n9OmIPkG3?usp=sharing

Executable can be downloaded from here

https://drive.google.com/file/d/1slHRubMbnGk7p-bl3kZK\_lktQdN5Tswy/view?usp=sharing

Nonstandard libraries can be downloaded from here

https://github.com/samuelhwilliams/Eel

Or here

https://drive.google.com/file/d/1wqeqUu67VpUHaCq1x8ZnRxYKj-PWx2NY/view?usp=sharing

# Other Information

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This program was written in python, but it also includes JavaScript in the main.html file inside the web directory.

To view the JavaScript code, open the main.html file in a text editor so that it doesn't open the file in the browser