UNIVERSITY of SOUTH FLORIDA

Neuro-Machine Interaction Lab

Brain-Drone Racing at USF

Brain-Drone Racing is a universal sport that allows people with disabilities (people in a wheelchair, upper or lower limb differences, etc.) are able to compete in the same race with someone who is considered healthy because the brain is only needed. Also, this sport to integrate virtual reality, drones, and neuro technologies.

The **next race** event at University of South Florida will be hosted on February 9th, 2019.

	YAHOO! FINANCE	CBS NEWS	abc NEWS
UNIQUE VISITORS ->	22,115,137	14,526,238	14,684,279

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USF UNIVERSITY OF SOUTH FLORIDA

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Neuro-Machine Interaction Lab

BRAIN-DRONE RACE

UNIVERSITY OF SOUTH FLORIDA (USF)
TAMPA, FLORIDA, USA

SPONSORSHIP PACKAGE
EVENT DATE: FEBRUARY 9TH, 2019

About Brain-Drone Racing

Brain-Drone Racing is a universal sport that allows people with disabilities (people in a wheelchair, upper or lower limb differences, etc.) to compete in the same race with someone who is considered healthy, because the brain is only needed. Also, this sport integrates virtual reality, drones, and neuro technologies. The e-sport version of the sport consists of controlling a virtual drone with the brain.

This will be free event for USF students and invited High Schools. There will be a maximum entrance fee of $10.00 for Tampa, surrounding residents, and other attendees. Students and visitors will be able to interact with brain-controlled virtual drones and mini drones prior to the race. During the race, they will be able to witness the world's first lap-based Brain-Drone Race. The Brain-Drone Race at USF will be an official match of the **Brain-Drone Racing League** and will be held on **February 9th, 2019**.

Media Outcome of the First Race

The first race was hosted in 2016 and had a positive response. It was showcased in more than 550 media partners worldwide. In this document, we are listing the **top media with unique visitors**:

YAHOO! FINANCE	CBS NEWS	abc NEWS
22,115,137	14,526,238	14,684,279

Goals

Host a race where University of South Florida and invited racers to race drones with their brains. The racers will imagine a movement in their brain to fly the drone. Furthermore, those who are attending the race (high school students, locals, and other attendees), but are not competing will have the opportunity to:

- Witness the world's first lap-based Brain-Drone Race
- Fly virtual drones with their brains in one of the simulation stations
- Compete with their friends and/or family members in one of the mini race tracks
- Learn more about the possibilities of Brain-Computer Interfaces
- Learn about the transition between science fiction and science
- Learn about the initiatives of the Brain-Drone Racing League

Competition Rules (tentative)

- Participants (USF students) will participate in a qualifying round where they fly a virtual drone with their brain in a simulation (see current simulation image below).
- The top 16 participants (8-10 USA, 4-6 international) with the best times will qualify to participate on the race for February 9th, 2019.
- The round of 16 will consist of drones flying autonomously while the racer changes the speed of the drone with their brain.

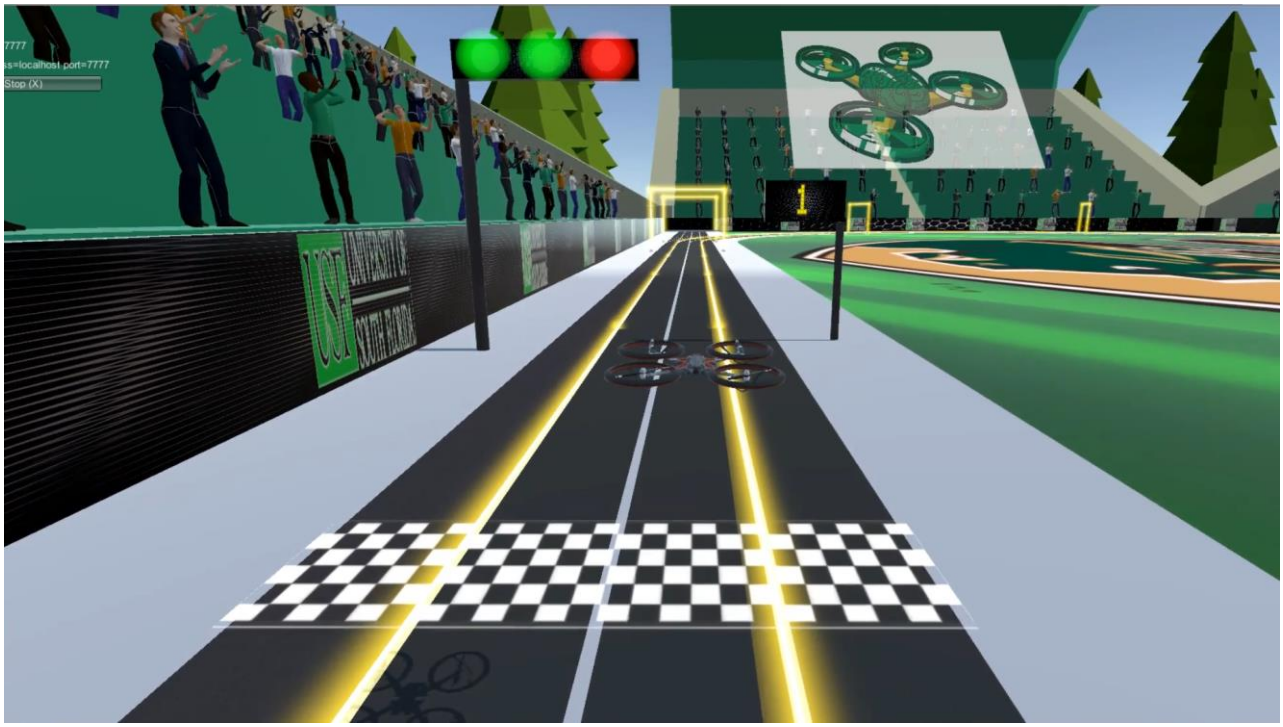
There are at least **four** reasons companies should sponsor the Brain-Drone Race:

1. Gain exposure to top Engineering students at USF by networking with them throughout the day.
2. Be recognized with name and logo placement in the simulation and at the event.
3. Obtain further international exposure through various media outlets by contributing to a world's first event.
4. To be publicly seen supporting cutting edge, diverse, multinational and impactful research, education, and science.

Find more information about Brain-Controlled Drones in the following sites and social media accounts:

Neuro-Machine Interaction Lab: www.neurosymbiosis.com
NMIL Instagram: neuro.machineinteraction
NMIL Twitter: @Nmil_Usf
USF CSE Twitter: @USFCSE

Dr. Marvin Andujar Site: www.marvinandujar.com
Andujar Twitter: @DrMarvinAndujar



Simulation where participants control virtual drone with the brain during qualifiers.

About the University of South Florida

Since its founding in 1956, the University of South Florida (USF) has an academic network of approximately of 50,000 students. USF has Division I athletics and has become a strong force in research and academics. Some of University of South Florida's achievements include:

- USF has newly joined two other Florida universities as **Preeminence** status.
- USF has been named one of the Top 50 Colleges Advancing Women in STEM.
- USF is ranked 43rd in the nation for research expenditures among all universities, public or private.
- USF is one of only four public universities in Florida classified by the Carnegie Foundation for the Advancement of Teaching in the top tier of research universities, a distinction attained by only 2.3% of all universities.
- USF will be the first university to ever host a lap-based Brain-Controlled Drone race and the second to host a general brain-drone race.

USF Research

This top tier research achievement makes student opportunities endless and allows sufficient funding for important research endeavors. USF Research awards and recognitions include the following:

- USF ranks 12th world-wide for granted U.S. patents among all universities
- USF is ranked 43rd in the nation for research expenditures
- In 2016, USF was awarded $515 million in research contracts and grants
- USF is a top producer of Fulbright U.S. Scholarship recipients, boasts the highest research and patent productivity among all Florida public universities, and is one of only 15 universities in the nations selected as a Tillman Partnership University of the Pat Tillman Foundation.

USF College of Engineering

The College of Engineering at USF has over 6,013 enrolled students. Since it all began in 1964, the college has received the following achievement

- Top 20 doctoral degrees awarded to women
- Top 50 for awarding engineering bachelor's degrees

USF Computer Science and Engineering (CSE) Department

CSE Department is a nationally top-ranked with outstanding faculty and successful graduates. Our graduates are in high demand in the Tampa Bay area and throughout the state and nation CSE is ranked in the top one-third of all CS programs by the NRC Research Quality metric in the 2010 data-based assessment of research-doctorate programs. Additional rankings from ASEE include:

- Top 40 for awarding bachelor degrees for Computer Science
- Top 50 for awarding bachelor degrees for Computer Engineering
- Top 40 for undergraduate enrollment
- Top 10 for percentage of doctoral degrees awarded to women

Sponsorship Levels

	Rookie Racer	Experienced Racer	Regional Champions	National Champions	World Champions
	$1,000+	$2,000+	$3,500+	$5,000+	$10,000+
Opening Reception Recognition	✓	✓	✓	✓	✓
Award Ceremony Recognition	✓	✓	✓	✓	✓
Reserved Seats to Attend Event	2 regular seats	3 regular seats	2 VIP	3 VIP	5 VIP
Private Demo of Virtual Brain-Controlled Drone			✓	✓	✓
Private Demo of Mini Brain-Controlled Drone			✓	✓	✓
Resume Database Access of Top Students	The date of the race	1 week before the race	2 weeks before the race	3 weeks before the race	2 months before the race
Resume Database Access of Racers	The date of the race	1 week before the race	2 weeks before the race	3 weeks before the race	2 months before the race
Logo on the website	Small below RC	Medium below RC	Medium Below C	Large below WC	Large on top
Logo on every shirt	Small below RC	Medium below RC	Medium Below C	Large below WC	Large on top
Logo displayed on drone simulation					✓
Recognition on VIP buffet dinner					✓
Sponsor on team and racers dinner				✓	✓
Twitch Page Recognition	Small below RC	Medium below RC	Medium Below C	Large below WC	Large on top
Brain-Drone Racing League Facebook Page Recognition	Announcement in bulk with every rookie racer sponsor	Announcement in bulk with every experienced racer sponsor	Announcement in bulk with every experienced racer sponsor	Individual announcement	Individual announcement

Brain-Drone Racing League Instagram Recognition	Announcement in bulk with every rookie racer sponsor	Announcement in bulk with every experienced racer sponsor	Announcement in bulk with every experienced racer sponsor	Individual announcement	Individual announcement
E-mail announcement	✓	✓	✓	✓	✓

In the case you would like to sponsor the event in another form, please contact Dr. Marvin Andujar at andujar1@usf.edu. Example of other donations include hardware (computers, drones, BCI devices), prizes, etc. If you are a donor separate from a company who would like to donate, your name will be recognized in the list of sponsors and donors. The placement of your name in the list will be depended on the level of donation.

Exhibit booths can be purchased separately at $600. This payment needs to be made to University of South Florida. The exhibit space includes:

- Face-to-face contact with students
- 6-foot table
- Access to electrical outlets (if needed)
- Free wifi

For all sponsorship levels, please note the following: Pursuant to IRS guidelines, support is defined as a "Qualified Sponsorship," which means no endorsement of your business, qualitative of comparative language, price information or indication of savings or value can be included in written words or in program remarks. In essence, your organization can be acknowledged through simple use of your name, logo and location, but no message that promotes or markets and trade or business, or any service, facility or product is permissible.

Payment information

- If donating/sponsoring, please fill-out this form: https://goo.gl/forms/jn6v1qG0S4WfgzG93
- *If donating or sponsoring, all checks should be made payable to:* **USF Foundation, Inc.**
- *The memo of the check should be* **Brain-Drone Race.**
- **Checks** may be mailed to:
  - **Marvin Andujar, 4202 E Fowler Ave, ENB 118, Tampa, FL, 33620**
- *All donors will receive a receipt for tax purposes from the USF Foundation Office.*
- *The remainder funds (if any) will be used to advance the Brain-Controlled Drones technology based on the acquired feedback from attendees in the Neuro-Machine Interaction Lab led by Dr. Marvin Andujar for future Brain-Drone Races.*

If you have any further questions, please contact Dr. Marvin Andujar or Blanche Pinto:

Dr. Marvin Andujar	Blanche Pinto
Assistant Professor and Founder of the Brain-Drone Race	**President of Brain-Computer Interface Club**
Email: andujar1@usf.edu	**Email: bjpinto@mail.usf.edu**