REQUEST FOR PROPOSAL
Network Technician

2019 RoboBoat Competition
Reed Canal Park
South Daytona, FL
June 14-24, 2019

General Information

RoboBoat competition is a mechanism that allows RoboNation (event organizer of RoboBoat) to empower the next generation of scientists and engineers with the knowledge and skills necessary to advance the state-of-the-art of Autonomous Surface Vehicles (ASVs). This is achieved by challenging students to solve tasks that closely resemble real world challenges in the maritime industry.

The competition is held at Reed Canal Park in South Daytona. Reed Canal Park is a public park with a large lake and a picnic pavilion. Twenty teams are expected at this year's RoboBoat competition.

Internet Requirements

Internet contractor shall use RoboNation's existing hardware (Microtek and Ubiquiti) to install, monitor, and breakdown equipment and systems for event participants and staff to access broadband internet provided by a third party (cost not included in proposal). A competition dedicated Spectrum modem for 300/20 internet feed is located in the park pavilion IT room and will be available for access by IT staff. RoboNation is responsible to coordinate and contract service with the internet provider.

Wireless access points to provide wireless internet to 20 booths must be set up in the team village tent. Wireless access points with a password shall be set-up in the following areas:

1) Staff office trailer
2) Judges'/IT trailer
3) Technical Tent at Course B

On-site tech support during the competition is required to help address any problems or make adjustments during the competition.

All connections are traffic shaped to ensure bandwidth usage is fairly distributed but must be prioritized for important applications. For example, for the webcast, it's crucial that a minimum amount of bandwidth is dedicated to the webcast encoder so that other usage at the event doesn't interfere with the stream.

Internet must be provided to support live webcast for the competition. 50/50 internet speed is preferred for the webcast and should be coordinated with the videography company (contracted by RoboNation).

The network must be secure. Student participants will create local networks for their team but cannot be allowed to access other teams'/staff computers on the network. Though hacking attempts are uncommon, the network shall be setup with a strict security to dissuade any such attempts.

See the RoboBoat Competition Video Link below for your reference. We encourage you to review the video to see what the students are building and what the competition is all about.

http://robonation.org/2017-roboboat-intro

Please contact me if you have any questions. I look forward to hearing from you!

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