

# SPARK

South Pasadena High School, California, USA

## Company Specs

South Pasadena is 2285 miles from East Tennessee State University. However, SPARK is competing in the telepresence category. As such all team members live within 2 miles of the pool we are using to participate virtually

Returning company, 2 returning and 3 new members. This is the company's first year in the Ranger class



Members from left to right:

Sebastian Liebe: new, marketing and outreach

Ryan Arlett: returning, CEO and pilot

Victor Chen: new, CFO and tether manager

Christopher Liebe: new, design engineer

Andrew Jin: returning, safety and regulations

All members of the company will be in 11th grade in fall 2021.

## ROV Specs

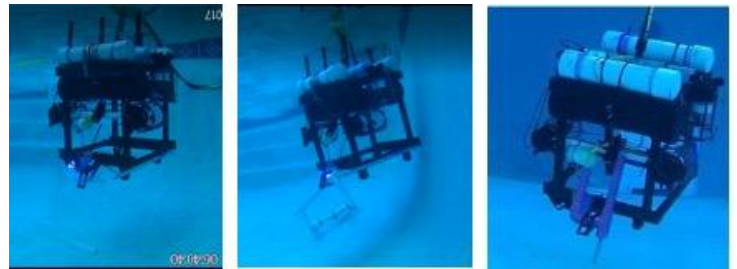
ROV name: Sparky





Total cost: \$2228.47

ROV size: 42cm x 40cm x 46cm and weight: 9.3kg with tether and tools included, max dimension: 57cm

Weight of ROV + tether: 12.2kg

Total time for design and construction: 300 hours



Safety Features	Special Features
<p>Shrouded propellers with gaps 11.5mm</p> 	<p>Custom modeled claw</p> 
<p>Tether Strain Relief</p>  <p>ROV                      Control Box</p>	<p>Specialized Tools</p>  <p>Detachable arm: 10ft reach      Net for collection of surface debris</p>