

First Flight ROV - NexGen 2017 - First Flight Middle School - Kill Devil Hills, NC



*2017 MATE Mid-Atlantic Ranger Champions - 2016 Scout Champions

Team Members

Jacob Thomas - CEO - Navigator - Design, Engineering, Construction - 8th grade - 2nd year - 9 year Mascot

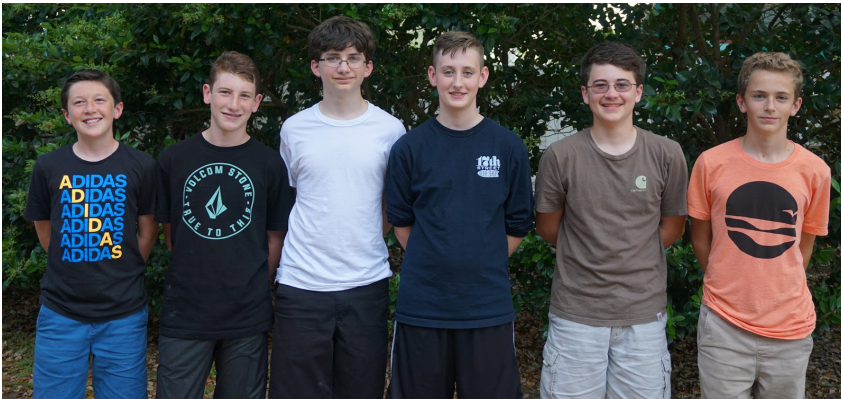
Drew Whitehead - Pilot - Design, Engineering, Construction - 8th grade - 2nd year

Jack Voight - CFO - Launch and Recovery - Design, Engineering, Construction - 8th grade - 2nd year

Will Roepcke - Electronics - Design, Engineering, Construction - 8th grade - 2nd year

Elliott Piland - Tool Specialist - Design, Engineering, Construction - 8th grade - 1st year

Travis Lawrence - Data Analyst - Design, Engineering, Construction - 8th grade - 1st year



FFROV NexGen Team Photo

From left: Jacob Thomas, Elliott Piland, Travis Lawrence, Drew Whitehead, Will Roepcke, Jack Voight (Photo: Thomas)

Quick Facts

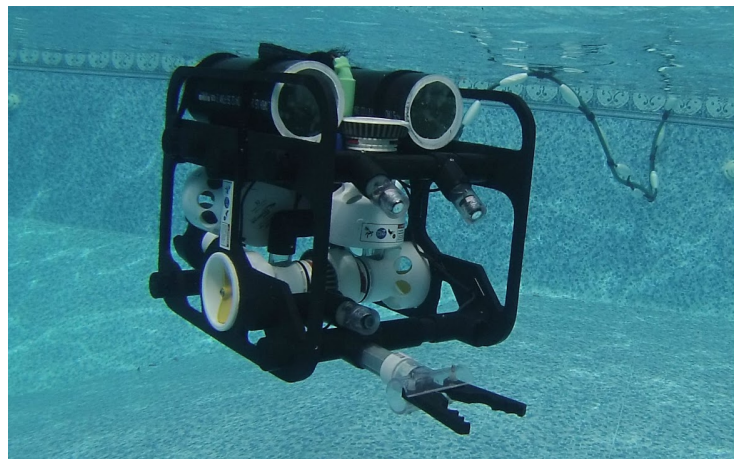
- 2780 miles from Kill Devil Hills, NC to Long Beach City College, CA
- Total cost - \$1447 - New parts \$1148 - Donated/Re-Used parts \$299
- 144 hours of team production time

Safety Features

- Shrouded thrusters
- All components fit inside the frame structure
- Warning labels & high visibility colors on moving parts
- Internal wiring
- Positive Pole inline fuse
- Wiring Strain relief

Special Features

- All tools fold inside frame to reduce size for transport
- 4 camera angles compiled to one split screen
- Separate filtered camera line for higher video quality
- Lightweight - under 11 kg - and - Compact - under 48 cm in diameter



ROV NexGen 2017 (Photo: Thomas)