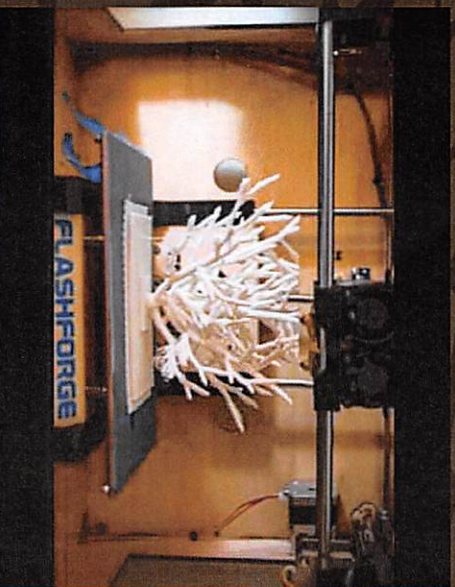


“I never thought engineering and robotics applied to nature. I’ve been exposed to many more job opportunities.” -Aristin Prum 2017



3D Printed Artificial Coral

Above is a picture of a digitally designed, artificial coral reef. These reefs are being made from 3D printers out of material that is able to take the look and feel of natural coral. Robotic engineering like this can help revitalize shrinking or damaged marine ecosystems.

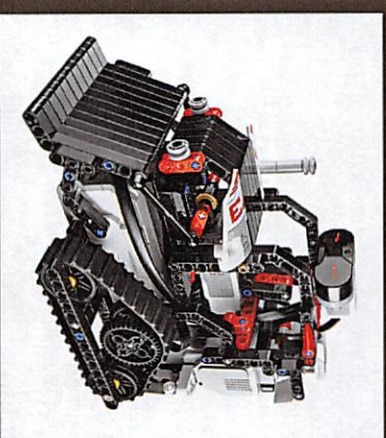


Program Structure

Course Content:

The course measures knowledge and skills in fundamentals of engineering, computer programming, electrical and mechanical pre-engineering as it relates to outdoor science. Students will also have opportunities to learn and use:

- Coding and 3D printing
- Unmanned aircrafts
- Geospatial Engineering for GIS, Mapping, and GPS and remote sensing.



A Pipeline of Talent:

Possibilities for Industry Certifications,

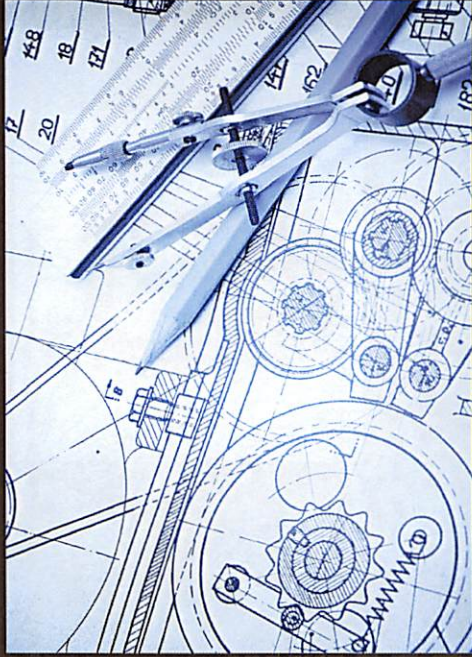
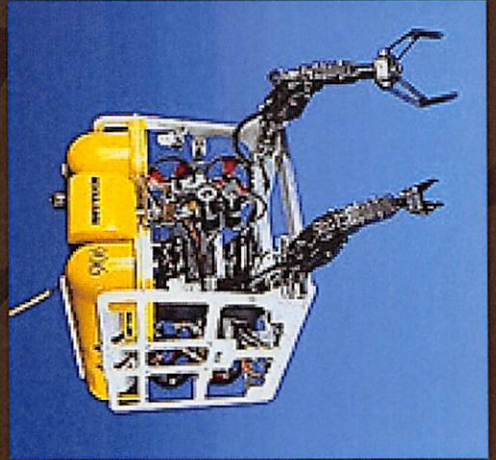
Leads to Engineering courses in Flagler schools like:

- Power and Electricity
- Agriculture
- Construction
- Aeronautics
- and the i3 Academy

Project Based Learning

The purpose of our Robotics program is to provide a hands-on learning experience. It is a fun and challenging course that encourages cooperative learning and provokes students to push the limits in Science, Technology, Engineering and Math.

Students will utilize LEGO EVO robots and 3D printers to plan, create and bring to life robotic tools designed for a specific outdoor purpose. From GPS, firefighting drones and unmanned deep sea ROVs, this course blends our R.O.A.M. and robotics classes to help students find ways to use automated systems to help them prepare for possible future STEM jobs in outdoor environments.



ROBOTICS AND ENGINEERING

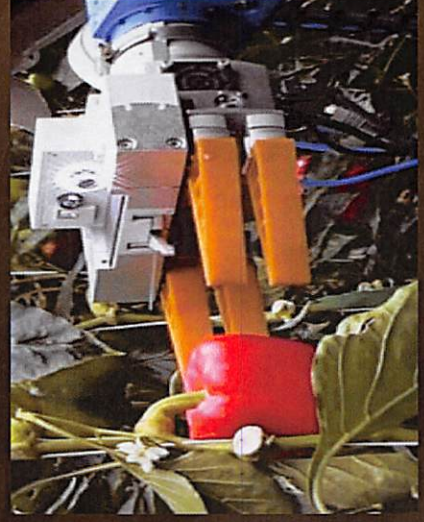
R.O.A.M.

As part of Indian Trails Middle School Classroom to Careers programs, Robotics is one of the many options scholars have to enrich their outdoor passions.

“Get Outside and R.O.A.M”

Robotics
Outdoor Science
Agriculture
Marine Science

Indian Trails Middle School
Flagler Schools, Florida



Indian Trails Middle School
Palm Coast FL, 32137
Phone: 386-446-6732 Fax: 386-446-7662
itmsmustangs.com