



**REX  
MACHINA  
5582**

**T** Trinity Christian School  
Sharpsburg, Georgia



## **STEM, Robotics, Programming & Drones Summer Camp 2016** for Rising 4th-8th Grade Students

2015 & 2016 Award-Winning FIRST Robotics Team #5582 from Trinity Christian High School is excited to provide opportunities for local students to experience STEM (science, technology, engineering and math) during four weeks of fun summer camp! **Check back next year for 2017 dates!**

### **Girls Only STEM Week**

This unique opportunity will be available for only 1 week. We will have female facilitators and female students who will work together to explore STEM through hands on activities. We will incorporate some of the activities from the drones, computer coding and robotics camps, and we will also do projects using chemistry and botany. Finally, we will learn about career opportunities in the STEM field. We will even have a few guest speakers to motivate our girls to break into STEM fields! There will only be 18 spots during the Girls STEM week. Each pod will have 6 students to one facilitator.

**Girls Only STEM: Session 2: June 20-24**

### **Robotics**

Students will build MINDSTORM EV-3 robots and program them for specific challenges. They will have a series of events that will be judged based on construction, maneuverability, programming skill, and "coopertition" (cooperating while competing). This session is directly modeled after FIRST Lego League (FLL), and your student would be very well prepared to join a competitive FLL team after the camp! Each pod will have 8 students to one facilitator.

### **Computer Coding/Programming**

Students will learn computer science fundamentals such as problem decomposition, functions, nested loops and conditionals, digital citizenship, and internet transmission methods. They will have the opportunity to design and build their own webpage, create a blog, and learn about internet safety. There will be only 16 spots per week of computer coding. Each pod will have 8 students to one facilitator.

**Robotics, & Computer Coding: Session 3: June 27- July 1**

### **Intro to Drones & Advanced Drones**

Students will build quad-copter drones and fly them in a series of events judged on construction, piloting skill, and communication. They also will learn about research on how Unmanned Aerial Vehicles (UAVs) are used to solve problems in our community and the world. Finally, they will have the chance to learn how to fly a larger drone and create aerial footage using the drone for surveillance. There will be only 24 spots for the Session 4 of drones. Each pod will have six students to one facilitator.

**Drones Session: Session 3: June 27- July 1**

### **Fees**

\$300 for Robotics & Drones

\$250 for Programming & Girls Only STEM

Before Camp Care: \$7.50 | After Camp Care: \$20

### **Location**

Turin Baptist Church, 29 Church St, Turin, GA 30289

### **Schedule**

9am – 2pm | Before Care: Begins at 7:30 am | After Care: Lasts until 5:30pm

### **Questions**

Contact [RexMachinaTCS@gmail.com](mailto:RexMachinaTCS@gmail.com), Bethany Thomas, 404.450.8224 or Melissa Taylor, 678.517.2620

For more info or to sign up, please go to: <http://goo.gl/forms/UQwEWpMhXU> or scan the QR at right.

