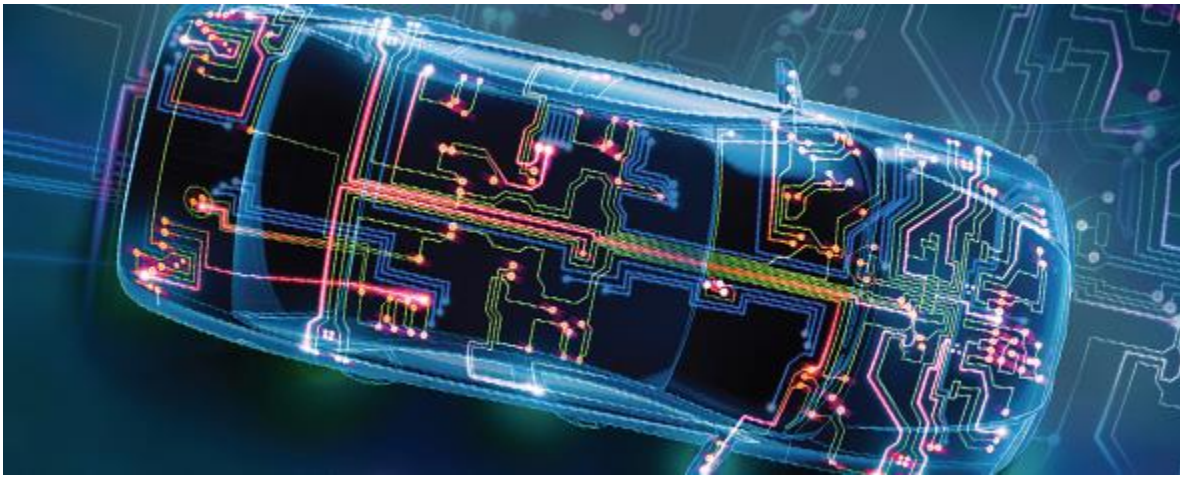


**Cincinnati Area Royal Rangers  
2018 High Tech Event  
November 3, 2018**

***Electronics!  
Smart Technology!***



# Cincinnati Area Royal Rangers

## 2018 High Tech Event

When: November 3, 2018

Where: Tri-County Assembly of God

Who: Ranger Kids, Discovery, Adventure and Expedition Rangers, Parents and Leaders

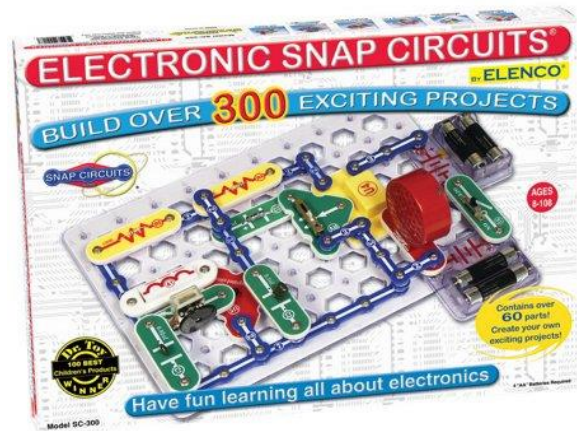
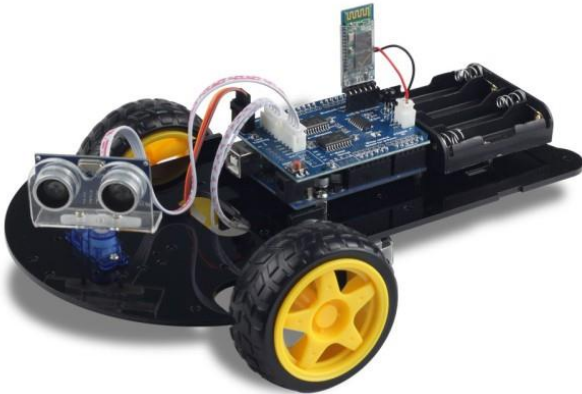
Time: Registration 9:00 a.m.

Cost: \$35.00

**Pre-Payment/Registration Required by 10/1/18!**

Theme: Electronics!

Smart Technology!



# Cincinnati Area Royal Rangers

## 2018 High Tech Event

At the 2018 Greater Cincinnati Area High Tech event, the Rangers will be learning about Electronics and Smart technology. Electronics is the discipline dealing with the development and application of devices and systems involving the flow of electrons in a vacuum, in gaseous media, and in semiconductors. A smart device is an electronic device, generally connected to other devices or networks via different wireless protocols that can operate to some extent interactively and autonomously. Some of the most commonly used smart devices are smartphones, tablets, phablets, smartwatches and other personal electronics.

During the event, the **Adventure and Expedition Rangers** will be building a **UCTRONICS Smart Robot Car Kit**, and then competing with the cars in various competitive events.

The **Ranger Kids and Discovery Rangers** will be using the **Elenco Electronic Snap Circuits kit** to build various electronic projects. We will have competitive events to use the electronic projects that they will be building.

After the initial time of instruction, the boys will be given the opportunity to build their Smart Robot Cars or Electronic Snap Circuit projects. After the assembly period is complete, the electronics competitions will begin! Prizes will be awarded to the top competitors in these events.

**It is important that you and your boys carefully read the attached Fact Sheets.**  
**Pay particular attention to the Pre-Payment/Pre-Registration instructions!**

We hope this will be a great time of fun and learning for your Royal Rangers and we look forward to seeing you there!

### **Guest Speaker: Adam Losekamp**

Adam Losekamp is a media evangelist and servant of Jesus Christ through Words of Life Evangelism. Words of Life Evangelism is devoted to teaching and preaching the Gospel of Jesus Christ, to reaching the sought, and growing His Kingdom through blog's, video blog's, and social media. We reach people who may never darken a church door. Adam's goal is to share God's word in any way that He leads. Blogs and video blogs hosted at [www.wordsoflifeevangelism.com](http://www.wordsoflifeevangelism.com), [www.facebook.com/wordsoflifeevangelism](https://www.facebook.com/wordsoflifeevangelism), and [twitter@Wordsoflifeev10](https://twitter.com/Wordsoflifeev10). Please visit!

Adam and his wife are blessed with seven wonderful children. He looks forward to sharing God's Word at our Cincinnati High Tech event!



# Cincinnati Area Royal Rangers

## 2018 High Tech Event

### 2018 High Tech Event FACT SHEET

- DATE: November 3, 2018
- LOCATION: Tri-County Assembly of God Fellowship Hall (lower rear of building)  
7350 Dixie Highway  
Fairfield, Ohio 45014  
(513) 874-8575 <http://www.tcalife.com>
- TIME:
- |                        |                             |
|------------------------|-----------------------------|
| 9:00 a.m.              | Registration Begins         |
| 9:30 a.m.              | Opening and Devotion        |
| 10:00 a.m.             | Instructional Period Begins |
| 11:00 a.m.             | Competition Begins          |
| 12:00 p.m. – 1:00 p.m. | Lunch Break                 |
| 3:30 p.m.              | End of Event                |
- COST: \$35.00 per person to participate in the event (cost includes insurance, prizes and electronics kit. Each boy will be able to take their electronics project home with them).
- WHO: Ranger Kids/Discovery Rangers – **Ranger Kids and Discovery Rangers MUST be accompanied by an adult to assist with building the electronics kit.**  
Adventure Rangers  
Expedition Rangers  
Parents and Leaders
- PRIZES: Prizes will be awarded to the top finishers in the competitive events.
- SNACK BAR: There will be NO Snack Bar available at this event. Instead, we will have a one hour lunch break. There are many fast food restaurants in the immediate area, i.e. Skyline, Burger King (across Route 4 from the church), Gold Star, Frisch's, Arby's and McDonald's (north on Route 4).
- \*PRE-PAYMENT/  
REGISTRATION:** Due to the cost of the electronics kits, we are requiring each Outpost to register and pay for their electronics kits in advance of the event. **Please mail the 2018 High Tech Registration Form and payment no later than October 1<sup>st</sup> 2018 to:**
- Jeff Apke  
4978 Streamside Court  
Liberty Twp., OH 45011**
- \*MISCELLANEOUS:** Please note on the following pages, items that you **MUST** bring with you to the event. These items will **NOT** be provided for you at the event.



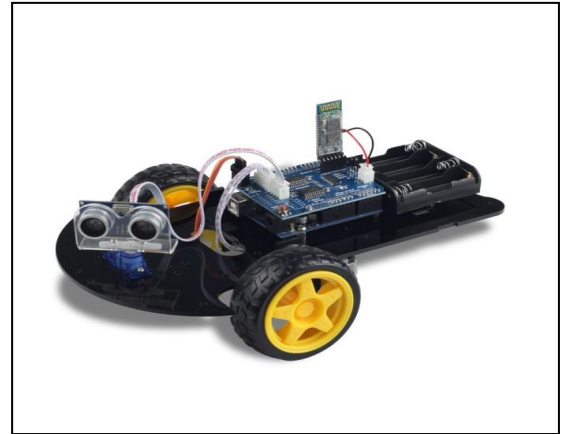
# Cincinnati Area Royal Rangers

## 2018 High Tech Event

### Smart Car Kit Details (Adventure and Expedition Rangers Only):

#### UCTRONICS IR Smart Robot Car Kit for Arduino:

- UCTRONICS 3-wheel Smart robot car experimentation kit
- Bluetooth/IR version of the UCTRONICS Smart Robot Car Kit for Arduino
- Designed for education, competition and entertainment
- Includes an IR Receiver, an Infrared Remote Controller and a HC-05 Bluetooth Module
- Comes with the UCTRONICS UNO board (based on the ATmega328P)
- 2cm - 400cm non-contact measurement



The UCTRONICS IR Smart Robot Car Kit for Arduino is a flexible vehicular kit particularly designed for education, competition and entertainment. The kit has an intelligence built in so that it guides itself whenever an obstacle comes ahead of it.

An Android APP is provided to connect with the robot car via Bluetooth.

#### Smart Car Specifications:

- Microcontroller: ATmega328
- Operating Voltage: 5V
- Input Voltage (recommended): 7-12V
- Input Voltage (limits): 6-20V
- Digital I/O Pins: 14 (of which 6 provide PWM output)
- Analog Input Pins: 6
- DC Current per I/O Pin: 40 mA
- DC Current for 3.3V Pin: 50 mA
- Flash Memory: 32 KB (ATmega328) of which 0.5 KB used by bootloader
- SRAM: 2 KB (ATmega328)
- EEPROM: 1 KB (ATmega328)
- Clock Speed: 16 MHz

#### Items YOU Need to Bring with YOU (will NOT be supplied at the event):

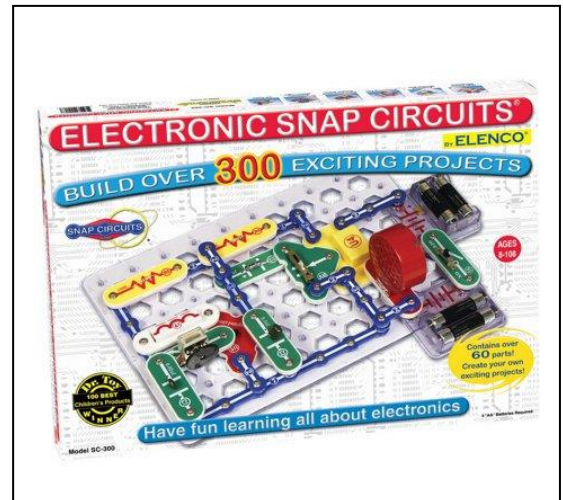
- PC or laptop to be able to load software to the car. One PC per Outpost should be adequate, however, you may bring additional PCs if you so desire. Please remember to bring power cords and power strips to power your PCs.
- Small Phillips head screwdriver
- Install Arduino IDE to your PC. This will be used for programming the Smart Car. Instructions for installing the Arduino IDE is included in the **Additional instruction guides (see below)**.
- **Additional instruction guides are attached with the event email sent to your Commander.**

# Cincinnati Area Royal Rangers 2018 High Tech Event

## Snap Circuit Kit Details (Ranger Kids and Discovery Rangers Only):

### Elenco Electronic Snap Circuits SC-300:

Let your little one have fun learning to build circuits with these colorful Electronic Snap Circuits SC-300. Each one features more than 60 parts that easily snap together, so no tools are required. These snap circuit toys can be used to make interesting circuits, encouraging educational play that teaches your little one about electricity. All of the parts have colored graphics that represent their real electronic names and symbols to get them ready for the real thing when they are older. This children's electric circuit kit comes with a complete instruction manual and project guide that helps you to guide your child through exploring over 300 experiments. Some of the projects include making circuits for doorbells, radios, alarms, flashing lights, laser light, street lamps, a lie detector and a fan modulator. This Electronic Snap Circuits SC-300 runs on four AA batteries that are sold separately. It is ideal for children age 8 years and older to learn about electronics the fun and fuss-free way. All parts of this easy-to-understand system are mounted on plastic modules that simulate the real thing. Enjoy hours of educational fun with this super-cool Electronic Snap Circuits SC-300 while you also increase your knowledge. You can build them on your own or invite over a few friends for a little lesson in teamwork. This set has won The National Parenting Center Seal of Approval and Dr. Toy 100 awards.



### Snap Circuit Specifications:

- Features: Contains over 60 parts, Projects involve AM Radio, burglar alarm and more
- Gender: Boys, Girls
- Educational Focus: Physics
- Brand: Elenco Electronics
- Age Range: 8 to 15 years
- Age Group: Tween, Child
- Color: Multicolor
- Assembled Product Weight: 4 lb
- Manufacturer Part Number: ELEX0300
- Number of Batteries: 0
- Assembled Product Dimensions (L x W x H): 19.00 x 14.00 x 2.00 Inches

### Items YOU Need to Bring with YOU (will NOT be supplied at the event):

- All items are supplied in the kit

# Cincinnati Area Royal Rangers

## 2018 High Tech Event

Trip to Tri-County Assembly of God (High Tech Event)  
Date November 3, 2018

This entire page **MUST** be completely filled out and returned to your Commander before a child can leave for the Event.

**PLEASE PRINT**

NAME \_\_\_\_\_ AGE \_\_\_\_\_ OUTPOST # \_\_\_\_\_  
ADDRESS \_\_\_\_\_ PHONE ( ) \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
CHURCH \_\_\_\_\_ CITY \_\_\_\_\_ PASTOR \_\_\_\_\_  
NAME OF COMMANDER RESPONSIBLE \_\_\_\_\_

**PARENT PERMISSION FORM**

I hereby authorize \_\_\_\_\_ to accompany the Royal Rangers to the Cincinnati Area High Tech Event. I understand the arrangements and feel that adequate precautions for the safety of my child have been, and will continue to be, taken. I will not hold the local church or its leaders, or the Cincinnati Section Staff, or The Assemblies of God responsible for any accidents. I understand the Cincinnati Section Royal Rangers will provide insurance and that there will be an emergency First Aid station on location, staffed by qualified personnel.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
(Parent or Guardian)

**EMERGENCY MEDICAL INFORMATION AND AUTHORIZATION**

This form must be signed by parent or guardian, and accompany the child to the event. The purpose of the form is to make it possible for parents and guardians to authorize the provisions of emergency treatment for MINOR Royal Rangers who may become ill or injured at this event. You can authorize such emergency treatment for your child, by completing this form:

I, \_\_\_\_\_ (Parent or guardian's name) OF \_\_\_\_\_ (City),  
\_\_\_\_\_ (State), THE \_\_\_\_\_ (Father, Mother, Guardian) OF \_\_\_\_\_ (name of child),

**A MINOR, WHO IS ATTENDING A ROYAL RANGERS' EVENT, DO HEREBY GIVE MY CONSENT, IN THE EVENT THE ADMINISTRATION OF ANY TREATMENT DEEMED NECESSARY BY LICENSED PHYSICIANS, DENTISTS, OR EMERGENCY PERSONNEL SERVING THE OHIO DISTRICT COUNCIL AT SAID EVENT.**

(SIGNED)

\_\_\_\_\_

(Parent or Guardian)

Home Phone ( ) \_\_\_\_\_ Business Phone ( ) \_\_\_\_\_ Doctor's Name \_\_\_\_\_ Phone ( ) \_\_\_\_\_

CHILD'S MEDICAL HISTORY: Good health? Yes \_\_\_ No \_\_\_ please explain \_\_\_\_\_

Allergies? \_\_\_\_\_ Physical Impairments (Heart, Epilepsy, etc.)? \_\_\_\_\_

SPECIFY ANY MEDICATION THAT MUST BE ADMINISTERED: \_\_\_\_\_

Date last TETANUS shot: \_\_\_\_\_

ANY SPECIAL INSTRUCTIONS? (Use other side if necessary)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Cincinnati Area Royal Rangers

## 2018 High Tech Event

### CINCINNATI AREA HIGH TECH EVENT

#### REGISTRATION FORM

FORM AND PAYMENT MUST BE MAILED NO LATER THAN 10/1/18

CHURCH NAME \_\_\_\_\_ OUTPOST # \_\_\_\_\_  
CITY \_\_\_\_\_ CHURCH PHONE (\_\_\_\_) \_\_\_\_\_  
PASTOR \_\_\_\_\_ PASTOR'S PHONE (\_\_\_\_) \_\_\_\_\_  
SENIOR COMMANDER \_\_\_\_\_ PHONE (\_\_\_\_) \_\_\_\_\_  
ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ZIP \_\_\_\_\_

	<u>RANGER KIDS</u>	<u>DISCOVERY</u>	<u>ADVENTURE</u>	<u>EXPEDITION</u>	<u>PARENTS/LEADERS</u>
1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____
11.	_____	_____	_____	_____	_____
12.	_____	_____	_____	_____	_____
13.	_____	_____	_____	_____	_____
14.	_____	_____	_____	_____	_____
15.	_____	_____	_____	_____	_____
16.	_____	_____	_____	_____	_____
17.	_____	_____	_____	_____	_____
18.	_____	_____	_____	_____	_____
19.	_____	_____	_____	_____	_____
20.	_____	_____	_____	_____	_____

TOTAL RANGER KIDS \_\_\_\_\_  
TOTAL DISCOVERY RANGERS \_\_\_\_\_  
TOTAL ADVENTURE RANGERS \_\_\_\_\_  
TOTAL EXPEDITION RANGERS \_\_\_\_\_  
TOTAL PARENTS/LEADERS \_\_\_\_\_  
TOTAL ATTENDANCE \_\_\_\_\_

@ \$35.00 = TOTAL DUE \_\_\_\_\_