#### **SUN Tech 2015 Camp Descriptions**

#### **Robotics**

#### The focus of the **Robotics Camp** will be to learn basic terms, programming, and sound logic for assembling and designing a LEGO (snap together) Mindstorm NXT robot from a kit that will be provided to each team. Activities will build upon the completion of a Battlebot and each team will compete in a Battlebot challenge the last day of camp. Parents are invited Thursday to attend a pizza lunch and watch the competition.

#### Students will also engage in STEM(science, technology, engineering, and math) activities, learn about CareerLink and careers in the robotics field.

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**Welding**

By enrolling in the **Welding Boot Camp** you can learn the skills needed to succeed in this challenging field. Tools, books, supplies and protective gear are provided for your use while enrolled in the class.

Welding Training will include: Safety, Safety, and more Safety!!! The GMAW process. Basic math concepts for welders. Welding techniques on various joints in all positions using ferrous metals. Basic welding information including common arc welding process descriptions. Students will learn how to design custom parts and cut them out using a CNC Plasma Cutter. All students will be taking their own specially designed project home on the last day.

**Auto Technology & Collision Repair**

**Build and Drive a Go-Kart!**

Do you enjoy taking things apart and seeing how they work? Do you like engines and off-road vehicles? Then join us in SUN Tech’s **Automotive Technology** Summer camp where you will be assembling and eventually driving a go-kart. During the building process, we will learn about engines, drivetrains, wheels, tires, bearings and even wheel alignment! This is hands-on experience which will teach you how things work and how they are put together. Once assembled, you will have the opportunity to drive the kart that you helped put together!

During a day of our Auto summer camp you will explore our **Collision & Repair** program where you will learn some of the techniques used in repairing and painting vehicles. Students will have the opportunity to use our SimSpray paint simulator.

#### **Building Trades**

#### Students in the **Building Trades Camp** will learn basic hand and power tool safety and to read a basic blueprint. Through teamwork students will learn techniques in the building trades like framing and drywalling with hands on activities. Students will learn the importance of maintaining heating and air conditioning for comfort and efficiency. Infrared cameras will be used to demonstrate where heat is lost in buildings. Students will also learn the basics of plumbing and have the opportunity to cut and fit pvc tubing into a fun take-home project.

**Health Science and Safety Camp**

**Health, Science and Safety Camp** will teach leadership and entry level skills needed in the health, dental, and criminal justice occupations. Students will explore career opportunities and build self-esteem through communication activities, workplace readiness skills, and activities.

#### Students will also engage in STEM (science, technology, engineering, and math) activities, learn about CareerLink and careers in the health, science and safety fields, listen to guest speakers and tour SUN Tech.

**Advertising Art & Design**

Most of what we see in stores, on line, in advertisements, on TV have been created and designed by someone in the **Advertising Art and Design** field. Learn the basics of Adobe Illustrator to design and print custom die cut stickers. Students will learn about the principals of design and use Adobe Illustrator to create a poster and a t-shirt based on a theme. If you are creative and like to think outside the box this camp is for you. Bring a t-shirt of any color, all other materials are supplied.

**REGISTER NOW**

Class size is limited.

Enrollment is on a first-come first-serve basis