

# PRESENTATION

FOLLOW ALONG WITH YOUR WORKBOOKS



# WELCOME BOY SCOUTS

- Grace Covenant Troop 777
- Robotics Merit Badge
  - Alan Burdick

ROBOTICS  
MERIT BADGE

# Competition

# REQUIREMENT 6

- 6. **COMPETITIONS**. Do ONE of the following:
  - a. Attend a robotics competition report to counselor what you saw and learned about the competition and how teams are organized and managed.
    - What you saw.
    - What you learned
    - How teams are organized and managed
  - b. Learn about three youth robotics competitions. Tell your counselor about these, including the type of competition, time commitment, age of participants, and how many teams are involved.

# REQUIREMENT 6

- 6. **COMPETITIONS**. Do ONE of the following:

## Competition 1

- Type of competition
- Time commitment
- Age of participants'
- How many teams are involved

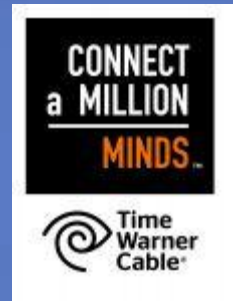
## Competition 2

- Type of competition
- Time commitment
- Age of participants'
- How many teams are involved

## Competition 3

- Type of competition
- Time commitment
- Age of participants'
- How many teams are involved

# Competitions/Leagues



ROBOTICS  
MERIT BADGE

# CAREERS

# REQUIREMENT 7

- 7. CAREERS. Name three career opportunities in robotics.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Pick one and find out the education, training, and experience required for this profession.

Education \_\_\_\_\_

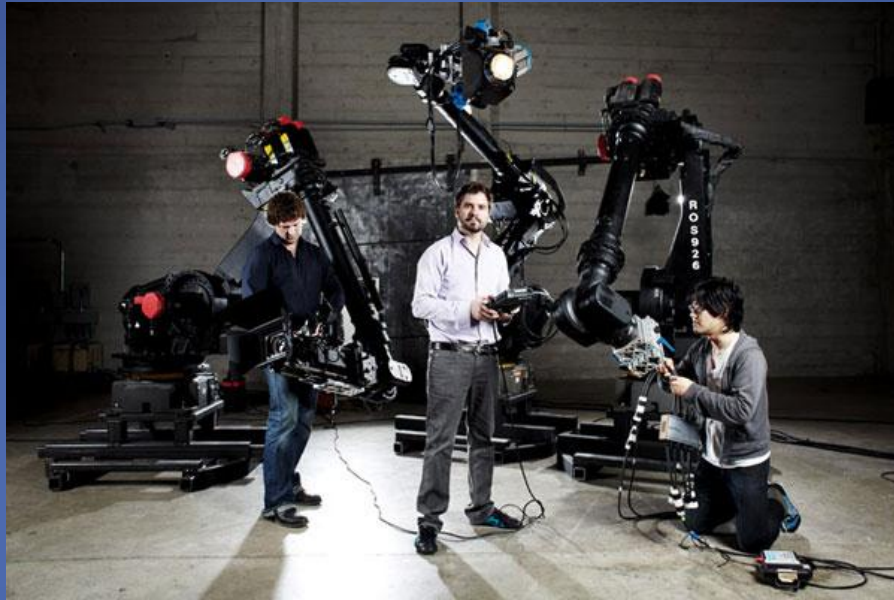
Training \_\_\_\_\_

Experience \_\_\_\_\_

Discuss why this profession might interest you \_\_\_\_\_



# Careers in robotics



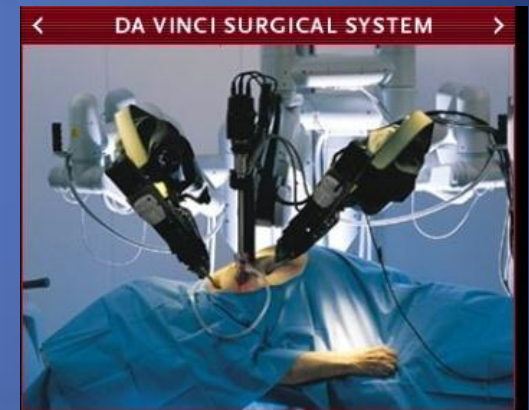
Use a computer to research careers in the industry.

# Careers in robotics

- **Basic Training:**
  - Take classes in physics, math, computers, and design.
  - Hands –on experience such as clubs, competitions pertaining to engineering or robotics.
- **Education:**
  - You will need more than a high school degree to work with robots
  - Robot technician training is available at most Community colleges
  - If you wish to design robots you will need a college degree
- **Suggested College Majors:**
  - Mechanical engineering
  - Electrical Engineering
  - Structural Engineering
  - Biomedical
  - Industrial Engineering
  - Computer Science

# Careers in robotics

- Exploration
  - Space
  - Deep sea
- Military or Law Enforcement
  - Bomb Squad
  - Fire-control
  - Public Safety
- Medicine
  - Analyze test data
  - Artificial limbs
  - Long distance surgery
  - Delicate or microscopic surgery
  - Non-invasive surgery
- Industry
  - Manufacturing difficult and tedious tasks
  - Dangerous and volatile conditions
  - High speed manufacturing
- Personal Robots
  - Vacuuming floors
  - Mowing lawns
  - Personal assistance



# Robotics Part 6 & 7

- Complete last of workbook
- Be sure to turn in engineering notebook and worksheets for final review.
- They will be returned after review.



CONGRATULATIONS!

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- Robotics Merit Badge
  - Alan Burdick