



## Other partners include:

American Institute of Aeronautics  
and Astronautics

ConnectEd

NASA

Lockheed-Martin Missile Systems

United Launch Alliance

Pioneer Space Center

Analex Corporation

Union Bank

Santa Barbara County ROP

California Space Authority

InDyne

California Space Grant Foundation

UCSB Technology Management Program

Allan Hancock College

Robo-Challenge

Lompoc Valley

Chamber of Commerce

CREATE

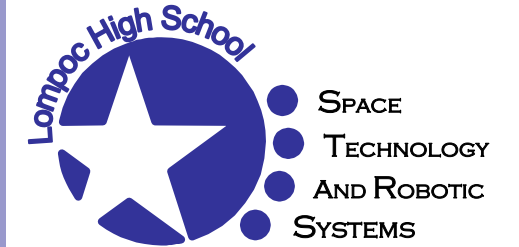


Photo courtesy of Lockheed-Martin

## Lompoc High School STaRS Academy

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Manufacturing Database: [lmdb.lUSD.org](http://lmdb.lUSD.org)



## *A High Voltage Program*

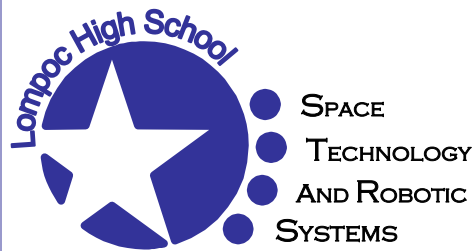
*Presented by:*

*Lompoc Unified School District  
California Department of Education*



*Students Have Potential*

**Tel: (805) 742-3000**



## The Focus of the Program...

is pre-engineering, applied specifically to the aerospace industry. Students participate in an integrated core curriculum of English, Math, and Science plus a technology elective.

In 10th grade, students learn the process for making a new product and are introduced to computer-aided machining in **Engineering 1: Design**.

In 11th grade, students take **Engineering 2: Electronics and Robotics**. They learn about electronic components, digital logic, and programming while designing and building their own robots.

Finally, in the 12th grade, students learn more about manufacturing and solve real problems provided by business partners while taking **ROP Advanced Drafting/Manufacturing**.



### Space, Technology and Robotics Curriculum

#### 9<sup>th</sup> Grade:

- ☆ English 9 STAR
- ☆ Algebra 1 STAR
- ☆ Earth Science STAR
- ☆ Drafting 1
- ☆ 3-D Design\*

#### 10<sup>th</sup> Grade:

- ☆ English 10 STAR
- ☆ Geometry STAR
- ☆ Biology STAR
- ☆ Engineering 1: Design

#### 11<sup>th</sup> Grade:

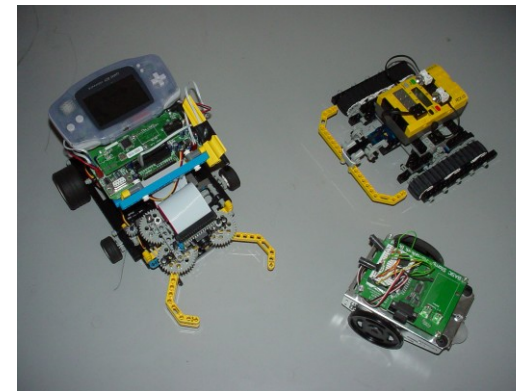
- ☆ English 11 STAR
- ☆ Algebra 2 STAR
- ☆ Physics STAR
- and/or Space Science\*\*
- ☆ Engineering 2: Electronics and Robotics

#### 12<sup>th</sup> Grade:

- ☆ Pre-Calculus STAR
- ☆ Chemistry STAR
- and/or Space Science\*\*
- ☆ ROP Adv. Drafting/Manufacturing

\* can also be taken in 10<sup>th</sup> or 11<sup>th</sup> grade

\*\* Space Science is required for internship



### Advantages of Smaller Learning Communities:

- + Collaborative environment
- + Job shadowing and internships with industry partners
- + Field experience
- + Guest speakers from industry
- + Mentors to advise students
- + Team of teachers and a select group of students
- + Field trips
- + Projects with multi-media presentations
- + Professional atmosphere



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