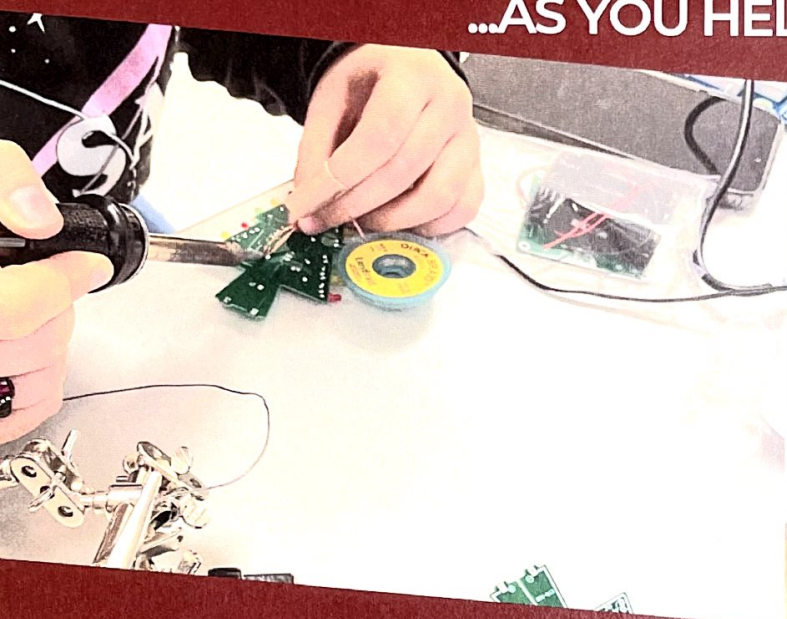


PRE-ENGINEERING

LET US HELP BUILD YOUR FUTURE...
...AS YOU HELP BUILD HORRY COUNTY



"THE ENGINEER HAS BEEN, AND IS, A MAKER OF HISTORY."

JAMES KIP FINCH



COURSES OFFERED

Siemens Engineering Design (1 unit course)

THIS COURSE CHALLENGES STUDENTS TO WORK IN TEAMS TO SOLVE COMPLEX DESIGN PROBLEMS. STUDENTS RESEARCH, DESIGN, DEVELOP, AND COMMUNICATE DESIGN SOLUTIONS TEAMS USE ENGINEERING SOFTWARE TO PREPARE AND EVALUATE DESIGNS AND MAKE EXTENSIVE USE OF 3D PRINTING TO PREPARE MODELS FOR PRESENTATION TO AUTHENTIC AUDIENCES.

Siemens Manufacturing & Automation (1 unit course)

THIS COURSE PROVIDES STUDENTS WITH EXPERIENCE IN THE CREATION OF A DESIGN, PREPARING THE DESIGN FOR MACHINING, AND DESIGNING THE MANUFACTURING AUTOMATION NECESSARY TO CONTROL PROCESSES.

Siemens Mechatronics & the Internet of Things (IoT) (1 unit course)

THIS COURSE ENGAGES STUDENTS IN THE APPLICATION OF DESIGN, ELECTRICITY/ELECTRONICS, COMPUTER SCIENCE, MANUFACTURING, AUTOMATION, MACHINE LEARNING, AI AND SECURE MACHINE TO MACHINE COMMUNICATIONS ACROSS THE INTERNET. STUDENTS COLLABORATE IN TEAMS TO RESEARCH PROBLEMS AND DEVELOP SOLUTIONS IN TO INDUSTRY 4.0 AND WEB 4.0 PROBLEMS.

Siemens Engineering Research & Development (1 unit course)

STUDENTS ARE CHALLENGED TO FORM TEAMS TO IDENTIFY, RESEARCH, AND CREATE UNIQUE SOLUTION TO AN EXISTING PROBLEM. TEAMS WILL GAUGE MARKET INTEREST IN THEIR PROPOSED SOLUTION AND CREATE A PROTOTYPE SOLUTION TO THEIR IDENTIFIED PROBLEM AND DESIGN A BUSINESS MODEL.

JOB OPPORTUNITIES

MECHANICAL ENGINEER

\$45.82/HR \$95,300/YR
MEDIAN INCOME

CIVIL ENGINEER

\$42.33/HR \$88,050/YR
MEDIAN INCOME

AEROSPACE ENGINEER

\$58.78/HR \$122,270/YR
MEDIAN INCOME

INDUSTRIAL ENGINEER

\$45.82/HR \$95,300/YR
MEDIAN INCOME



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