



technology

TEAM 6441D, MIAMI FLORIDA

FOR MY SCHOOL PROJECT ON TECHNOLOGY, I PICKED ELECTRICAL ENGINEERING BECAUSE IT'S INTERESTING AND I WANT TO BE A PART OF IT. I WANT TO BE A PART OF IT BECAUSE I WANT TO BE A PART OF IT.

IN THIS FIELD, PROFESSIONALS START BY FIGURING OUT WHAT USERS NEED AND SETTING TECHNICAL GOALS. THEY CREATE PROTOTYPES, TEST THEM, AND THEN WORK ON DESIGNING THE FINAL PRODUCT. IT'S A LONG AND HARD WORK, BUT DESIGNING THE FINAL PRODUCT IS A GREAT FEELING. ALTHOUGH OUR SCHOOL PROJECTS ARE JUST A SMALL PART OF THE PROCESS, WE CAN LEARN A LOT FROM THEM. APPROACH THE DESIGN OF THINGS LIKE WEARABLE TECHNOLOGY...



the design process



IDENTIFY PROBLEMS OR NEEDS, FOCUSING ON AREAS SUCH AS HEALTH MONITORING OR COMMUNICATION.



RESEARCH AND DEFINE REQUIREMENTS, CONSIDERING USER NEEDS, TECHNOLOGICAL CONSTRAINTS, AND MARKET TRENDS.



DEVELOPMENT OF PROTOTYPES FOR TESTING AND FEEDBACK.



DESIGN AND DEVELOP THE ACTUAL PRODUCT IN TERMS OF HARDWARE, SOFTWARE, CONNECTIVITY AND POWER MANAGEMENT.



FULLY TESTS FUNCTIONALITY, USABILITY, DURABILITY AND SECURITY.



ITERATE THE DESIGN BASED ON TEST RESULTS AND USER FEEDBACK.



MOVE INTO PRODUCTION BY COORDINATING MASS PRODUCTION WITH MANUFACTURERS.



BRING THE PRODUCT TO MARKET USING MARKETING STRATEGIES.





how it impacts me



THE WAY PROFESSIONALS DESIGN THINGS IS A BIT LIKE HOW MY VEX IQ ROBOTICS TEAM DOES IT. WE BOTH BUILD AND TEST PROTOTYPES, FIXING THINGS AS WE GO. BUT PROS WORK ON BIGGER AND MORE COMPLEX PROJECTS, INVOLVING MORE PEOPLE WITH DIFFERENT SKILLS. THEY ALSO FOCUS A LOT ON WHAT USERS WANT, AND THEY HAVE ACCESS TO FANCIER TOOLS AND RESOURCES. EVEN WITH THESE DIFFERENCES, WE SHARE THE SAME BASIC IDEA OF TRYING, TESTING, AND MAKING THINGS BETTER.



PARTICIPATING IN VEX ROBOTICS HELPED ME PREPARE FOR MY FUTURE JOB. I LEARNED HOW TO SOLVE PROBLEMS, USE DESIGN IDEAS AND WORK WELL IN A GROUP. BUILDING AND IMPROVING ROBOTS TAUGHT ME TO KEEP TRYING, EVEN WHEN THINGS WERE DIFFICULT. THESE SKILLS ARE USEFUL IN ANY JOB, ESPECIALLY IN ENGINEERING AND TECHNOLOGY.



VEX
ROBOTICS
COMPETITION

SACK ATTACK



JOB

