

Satellite View Career Pathways Flyover for High School Students

If you want to	Look at Career Pathways for	If you're still in High School	Bonus points
Make Videogames	Software Engineering, Digital Artist, ???	Take the most math you can: algebra, trig, geometry, calculus. If offered, take computer science, programming, electronics; if your high school doesn't offer these, try your local community college	Think about how a computer works, not just how games are played and won. Look at roleplaying sites and read fantasy, science fiction, and quest mythology; SAOF-Willamette HS Programming contest
Make Robots, Control Robots	Electrical Engineering, Computer Engineering, Software Engineering	Take the most math you can: algebra, trig, geometry, calculus – if offered, take electronics, physics, robotics, programming; if your high school doesn't offer these, try your local community college	Think about team games like Battle bots, Soccerbots, FIRST LEGO League, FIRST VEX Challenge, FIRST Robotics; SAOF-Willamette HS Programming Contest
Build Big Buildings, Roads, Bridges, Waterworks	Civil Engineering	Take the most math you can: algebra, trig, geometry, calculus – take chemistry and physics, too; if offered, take pre-engineering PTE classes like drafting, architecture, structural engineering; if your high school doesn't offer these, try your local community college	Environmental Engineering.

Make Alternative Energy really work	Civil Engineering	Take the most math you can: algebra, trig, geometry, calculus – take chemistry and physics, too; if offered, take pre-engineering PTE classes like drafting, architecture, structural engineering, electronics; if your high school doesn't offer these, try your local community college	Environmental Engineering, NWSE/ISEF
Design the next new great gadget	Computer Engineering, Electrical Engineering	Take the most math you can: algebra, trig, geometry, calculus – if offered, take electronics, physics, robotics, programming; if your high school doesn't offer these, try your local community college	InvenTeams, NWSE/ ISEF
Work on pushing around individual atoms and other cutting edge nanotechnology	Chemical Engineering, Materials Science	Take the most math you can: algebra, trig, geometry, calculus – if offered, take chemistry, biology, electronics, physics; if your high school doesn't offer these, try your local community college	NWSE/ ISEF, Science Bowl, internships
Dreaming up the next big application: Google, Facebook, or YouTube ...	Software Engineering	Take the most math you can: algebra, trig, geometry, calculus. If offered, take computer science, programming, electronics; if your high school doesn't offer these, try your local community college	SAOF-Willamette HS Programming Contest

Make lots of product in a better, faster, less expensive, less wasteful way	Manufacturing Engineering	Take the most math you can: algebra, trig, geometry, calculus. If offered, take computer science, programming, electronics; if your high school doesn't offer these, try your local community college	Internships
?	Chemical Engineering	Take the most math you can: algebra, trig, geometry, calculus. Take Biology, Chemistry, and Physics. If offered, take computer science, programming, electronics; if your high school doesn't offer these, try your local community college	
Mine massive amounts of data to make information	Computer Science, Information Technology	Take the most math you can: algebra, trig, geometry, calculus. If offered, take computer science, programming, logic; if your high school doesn't offer these, try your local community college	Classes that will help you understand how data is used: business, (some) history, accounting, sociology, statistics