

What types of engineering did you study?	Important skills to develop as an engineer	Pros of engineering profession	Cons of engineering profession	Any other items that might be helpful for a high school student
Chemical	Critical thinking, adaptability, public speaking/writing/communication skills in general, organization & time management. A lot of engineering jobs start out technical but end up being very people oriented (managers, directors etc). Learning how to work well with people and using non-authoritative leadership skills are very important.	Highly regarded, lots of discounts lol, big field (variety of jobs), usually leads to managerial positions, one of the higher paying industries.	Work load usually higher (along with stress levels), usually office/desk jobs (especially the higher up you go in the corporate chain), EITs need to "pay their dues" for several years --> usually means doing what other people don't want to do (which I guess could be true for any profession).	Research, research, research! Ask as many questions as you can about prospective programs you want to get into in university. It's better to find out now about what you want to study instead of getting into it and realizing it's not what you expected or want to do. With that said, it's not the end of the world if you want to switch later on... that's very common nowadays (people have many different jobs throughout their career even if they work for the same company) and also, no time spent learning something (even if you don't end up doing it) is ever wasted!
Chemical	Organization, critical thinking, problem solving, fact-based/data-driven analysis	Many people you can relate to - lots of people go in to the engineering profession. It is well-paying and develops great skills that can be applied to many different industries.	Make sure you really enjoy it if you're going to complete the degree and go in to an engineering role for your career. You have time to decide and potentially change your mind while you're studying in university - but keep in mind that it is a lot of work.	Don't just focus on the money - you have to enjoy what you do.
Chemical Engineering, mostly	<p>** Communication -- oral and written. Your amazing work is no use to anyone unless you can articulate what you've done.</p> <p>** Multidisciplinary aptitude -- if you can understand a bit about what everyone else does, you can do your own job better</p> <p>** Interpersonal skills -- because no one works in isolation and you'll need to co-operate with others to get stuff done.</p>	Not sure if I've seen enough to comment on engineering as a whole, but one nice thing about automotive engineering is that you get to be directly hands on with components and product, and you get an inside view of a product that people commonly use every day.	Not sure if I've seen enough to comment on engineering as a whole, but one bad thing about automotive engineering is that one tends to get stuck in automotive once they're in	<p>Join a student team or take part in engineering competitions -- strive to become a core part of the team as a major contributor or leader. This shows employers four important things: 1) You're a team player 2) You enjoy engineering 3) You can manage your time 4) You produce real results.</p> <p>Bonus if a prospective employer recognizes the competition/team you are part of.</p>

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Computer	Ability to find information on your own without asking. Knowing when to ask the right questions. Technical skills like math and physics. Working with other people.	Good jobs with security. A lot of people have pride in what they can create. You get to work with lots of smart people.	A lot of long hours (depending on your job). You have to keep up technically. If you make mistakes, often times there are very real consequences.	Go to class.
comp	Problem solving, people skills. Learn good people skills. Be teachable, look to soak up knowledge from people who have more experience. In the working world, a degree means less than experience does. Don't look down on older people who don't have the same education you do. There is a lot to learn from them.	Do work related to field, interesting work. Challenging problems to solve.	Long hours sometimes, can be stressful at times	Work hard from the start. Good grades early lead to better co-ops. Which lead to better jobs when you come out.

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Electrical	Persistence, ability to incorporate many concepts into a given problem, cross-disciplinary work, general math skills.	Pay is not bad. Can translate concepts into physical tools and see the results of your work.	Stressful. Large amounts of responsibility.	Study hard. University is hard. I got easy 80s in high school without trying, but had to work hard to maintain them in university. And don't stress if you can't figure out what you want to do for the rest of your life. 1/3 of my old classmates didn't stay in engineering after graduating. But the degree itself is rather valuable.
Electrical Engineering	Resourcefulness, persistence, attention to detail, problem solving skills	Interesting problems, forefront of technology, solving problems that are relevant to daily life	Demanding, difficult, sometimes boring	Do something your passionate about but also be realistic. Leverage your strengths? Think marketability not just passion. Passion is not an emotion. It is the motivation to be willing to sacrifice time, resources, sleep, time, (you name it) to pursue something that you believe in.
Electrical	Ability to learn at a fast pace Multi tasking. Interpersonal communication skills Problem solving mindset	Well paid Technically challenging for the mind	Stress. High workload Deal with numbers more than deal with people	Talk to people who are on the profession

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Mechanical	Attention to detail - so many things to go wrong! analytical skills - able to produce a logical conclusion from information or set of data ability to synthesize new solutions from previous experience/knowledge communication - clearly able to present ideas, whether written or oral communication - ability to read people	stable income mostly stable working hours respectability in career ability to design and create working for the public good	not going to be making top 10% salary range unless willing to start own company bosses that don't understand physics project managers that don't understand how long it takes to do things properly liability/responsibility	
Mechanical	Perseverance, adaptability, calmness. The first being what will get one through engineering. The second is also needed to get through engineering and not lose one's mind. The third in order to objectively evaluate all the choices at hand and choose the most correct one given what is known and what can be predicted about what is not known.	It truly makes one a better person. It is like taking up a martial arts, except it is a martial arts for the mind.	Stress	Just because you are good at physics and math does not mean you should enter engineering. Think carefully whether you truly like engineering as a profession and not succumb to exterior pressure (read: parents) when making the choice. 1) The education is twice as demanding and costly than an arts degree. I have done both, so I know. 2) Be careful which type of engineering you enter. The more historic disciplines of engineering are for those who truly enjoy doing just that. Those being mechanical, civil, electrical, and chemical. The more modern disciplines give way to consultancy and banking.
Mechanical	Interpersonal Skills! Do not overlook this. In university, it's all technical, but in the real life, it has more to do with how well you can communicate, interact and relate to others than anything else.	- Well respected profession (Professionals) - Lots of work opportunities to expand and develop - Depending on job, very diverse work, always changing and not "structured" like typical 9-5 - The more you put in, the more you get out - Great pay!	- You have to use your brain rather than relying on routine to get you through the daily simple mindless tasks! hah - Pressure; stressful at times.	
Mechanical	The how and what. How you do things: work ethics, interpersonal skills, leadership, team work, commitment, drive, ownership What you do: the technical competency... it is possible that you are the most technical person in a group, and will be the expert.	Great respect and good pay for the profession.	The stress related to the work. Often times, if you are the only engineer in a team, others may not understand the technical limitations, but still ask you to do ridiculous tasks that are not realistic, but fail to understand why it can't be done.	A speaker once shared this with us at an engineering ceremony and it's something I've challenged myself to follow. I share it with you and challenge you to do the same in every walk of life. 1. Always be on time. 2. Do what you said you're going to do 3. Finish what you started 4. Always remember to say please and thank you
Mechanical	Organization, critical thinking, problem solving, communication, relationship management, tracking status of crap all the time, MS excel	good for those who like to solve problems, good for those who like to improve on products, good for those who appreciate beauty of engineering design and contributing to a product that functions as planned	can be too much work for too little reward, low human element, long hours,	UW engineering is one of the best university programs because it challenges you academically, mentally and emotionally, and meanwhile prepares you for real life events such as job searching, moving and leaving family/friends,

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Mechanical, Biomedical	<ul style="list-style-type: none"> - communication skills (understanding and being understood) - teamwork - time management - organization 	can be fun if you like technology or solving problems	a lot of responsibility, can get stressful	<p>engage your teachers/professors, they will be your best resource to figure out what's out there for work/career as many professors also work in the industry and likely have built a large network that can help you</p> <p>take responsibility for your results, instead of blaming a professor for a poor grade, ask the professor what you did wrong, how can you fix it and how can you improve and better prepare yourself for the next assignment or exam</p>
Mechanical and Industrial	Multi-tasking, prioritizing, being efficient.	Instills a thinking process that can branch off into a lot of different jobs.	A pure technical engineering job will provide you with a stable income, but you'll need to move into the business side to continue moving up. Not a lot of jobs have specialist roles that allow you to continue to move up.	Going through engineering in school doesn't mean you'll be working as an engineer.

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Mechatronics & Mechanical	<p>Variety of technical skills to keep options open and how to learn effectively. Your first job is hiring you as an engineer because you know a bit about the job, but you are able to learn the details quickly. No one expects you to be a specialist out of engineering school.</p> <p>Time management and working effectively / efficiently.</p> <p>Take some business electives, it will allow you to understand and form business cases for technical capital projects and have conversations with management.</p>	<p>We are important and have had an input into almost everything around you. You do it because you like to, we don't care about the recognition. Typically well compensated and decent amount of jobs. No job cap - potential to raise to CEO level. Typically a lot of responsibility and autonomy.</p>	<p>You only hear publically about when we screw up.</p> <p>Sometimes people expect you to know everything when you don't.</p> <p>You barely use anything of what you learn in school and thus will loose it very quickly.</p>	<p>If you know you want Engineering but not sure which one yet, make sure to look for schools that have a general first year, some you have to apply directly into a specific stream. Keep all options open.</p>
Mechatronics	interpersonal, people skills, EQ, big picture, teamwork	steady pay, job security, can be parlayed into many other professions as it is recognized as a generally strong degree. The difficulty of it prepares one for hard work in other seasons and areas of life.	Tends to produce people who overthink, overanalyze, have a hard time thinking outside of the box, poorer people skills, systematic-but not as big picture in viewing things	don't be forced into it by parents/expectations. but also don't get caught up in the dreamy "i'll only do what i love the most"