



Software Engineer

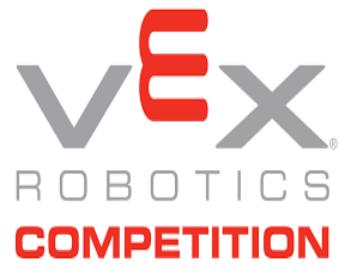
**Presentation by: Team RoboTech
Team Number: 2700A**

What is a Software Engineer?



Software engineers appeal to us the most within the plethora of available STEM careers. A software engineer is a person who creates, compiles, runs, and debugs programs for software. They also develop systems and software for businesses and organizations. Software engineers first analyze a client or organization's needs and requirements. Then they design software that is user-friendly, efficient, appealing, and suits the users' needs. After they have successfully done this, then they construct the software using various programming languages. If there are bugs negatively affecting the software, they will resolve them and will add any necessary improvements.





Our Involvement in VEX Robotics

Our participation in the VEX IQ robotics programs has provided us with many great skills and a better insight in the ever changing world of technology and robotics. One of the fields in which we continue to learn in is Software Engineering. Gradually, as we progress deeper into the Robotics season, coding the robot becomes a larger priority in which we will be putting more time towards. As coding is a major factor within the software engineering environment, taking part in VEX Robotics bolsters our understanding of software engineering. Alongside coding, VEX robotics teaches us the principle skills that a software engineer must posses before entering a workplace.



Photos





What are the required skills for a software developer/engineer to allow them to be successful?



Field of Study: Software engineering consists of many unique and variant fields of study that permit people to become successful individuals within this field. The knowledge of any of these career fields contributes to the success of a software engineer: computer science, computer systems engineering, software engineering, and/or mathematics.



Skill-Set: Amongst the vast careers in software engineering, there are some skills that people need to have, for a successful career. These skills have helped software engineers bring their work to the finest of quality, and many successful people, in general, have these skills. The skills consist of: communication, teamwork, multi-tasking, programming, problem-solving, and attention to detail. Without these skills, there wouldn't be as many successful software engineers as there are today.

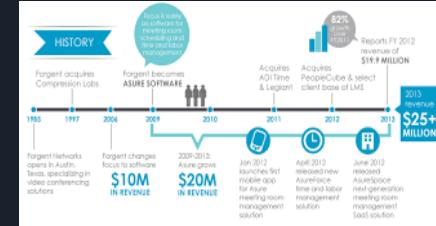


Degree: Many successful software engineers possess a master's degree and bachelor's degree within the career field of computer science or software engineering.



How will the field of Software Engineering evolve within a decade?

In the future evolution of careers, the usage of electronic and mechanical devices will be increasingly essential as time passes. However, Software engineering will continue to grow and evolve with the help of beneficial introductions. A notable source that software engineering will and currently relies on is the AI. These new introductions will be likely to alleviate the labor given to a Software engineer. Though this is the case, it isn't implied that advanced technologies introduced in the future will fully replace software engineers. Moreover, with the current epidemic software engineering will receive a spike in growth as more and more software is developed to ease the lifestyle led by humanity.





Many influential people have made their mark through their contributions in the field of software engineering. Amongst them, William Henry Gates III, more famously known as Bill Gates, is also known for his revolutionary work in the field of software engineering. During his Microsoft days, Bill developed revolutionary hardware and software. Microsoft's computer was much faster and had a better User Interface for the user to enjoy. This had positively changed technology and software engineering.

Bill Gates **Co-Founder of Microsoft**

- **What allowed Bill Gates to acquire the means of success in his profession?**

Bill's curiosity for computers was uncontrollable from a young age, and he took the initiative to fulfill his dream despite the disadvantages so that he could be able to develop software with his childhood friend, the late Paul Allen. It wasn't his erudite skills or strengthful knowledge that helped him create such a device. It was his interest and dedication towards creating this device that led him to his success. Despite the flaws that he and Paul Allen had encountered, he never lost hope towards achieving the final goal. Bill Gates is an inspiration for many across the globe, and these are the reasons why we as a team chose Bill Gates as our famous person.

Citations and Team Information

Presentation by: Amogh Saunshimath, Sahasra Boggarapu, Nathan Poovathukaran, Aditya Badhrayan, Atharva Ranbhare

Team Number: 2700A

Title: Software Engineer Career Readiness

Reference (MLA Format):

1. “What Is Software Engineering? - Definition from Techopedia.” Techopedia.Com, 2012, www.techopedia.com/definition/13296/software-engineering. Accessed 28 Oct. 2020
2. “Learn About Being a Software Engineer | Indeed.Com.” Indeed.Com, 2019, www.indeed.com/career-advice/careers/what-does-a-software-engineer-do. Accessed 28 Oct. 2020.
3. “Projected Tech: A Look at the Future of Software Engineering.” Maryville Online, 18 June 2019, online.maryville.edu/blog/future-software-engineering/#:~:text=According%20to%20the%20U.S.%20Bureau,of%20software%20engineering%2C%20especially%20as. Accessed 28 Oct. 2020.
4. “Bill Gates | Biography, Microsoft, & Facts | Britannica.” Encyclopædia Britannica, 2020, www.britannica.com/biography/Bill-Gates. Accessed 28 Oct. 2020.
5. Staff Writers. “Software Engineer Careers | ComputerScience.Org.” ComputerScience.Org, ComputerScience.org, 18 Nov. 2019, www.computerscience.org/careers/software-engineer/. Accessed 28 Oct. 2020.

The End

