

1140D

CAREER READINESS CHALLENGE  
TORONTO ON, CANADA

BY: TEAM 1140D



# ARCHITECT

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# *Which STEM career or company did you select, and why?*

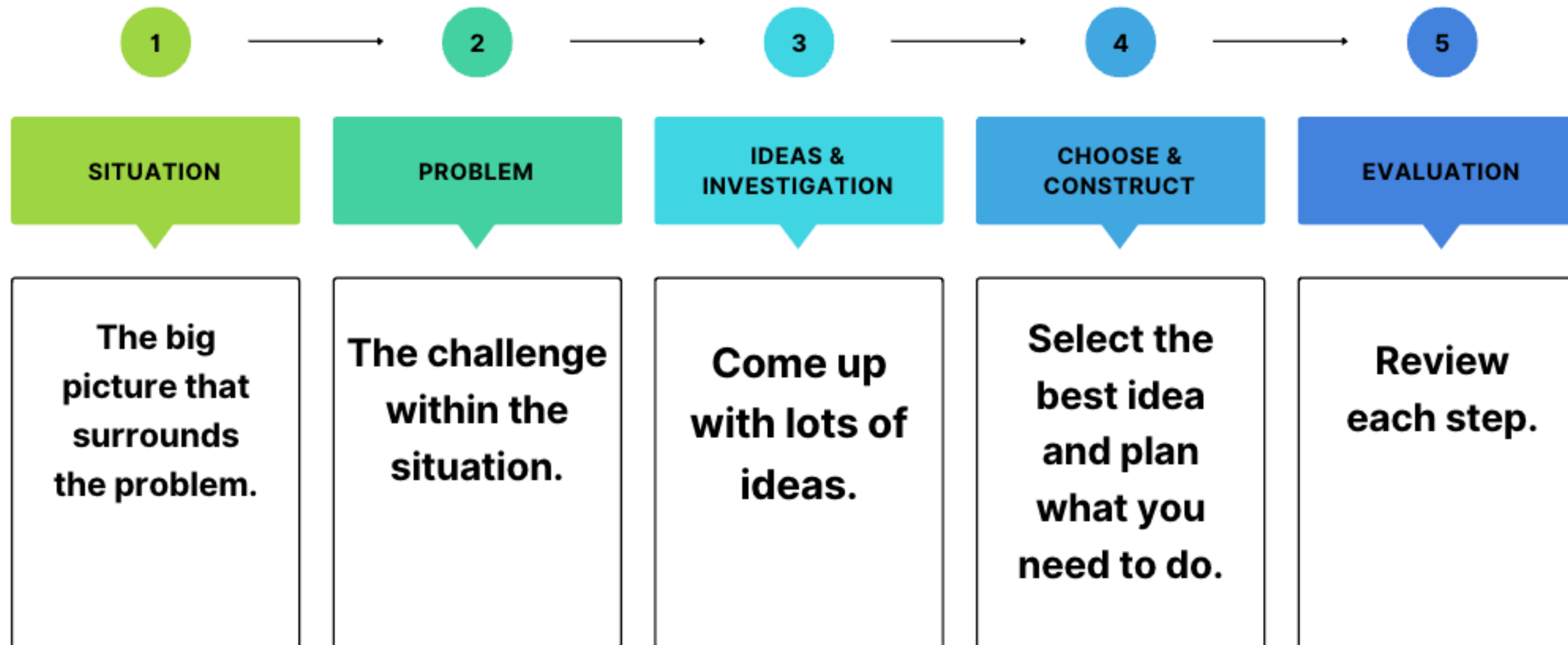


We have chosen to pursue a career in architecture within the STEM (Science, Technology, Engineering, and Mathematics) field. The decision to become an architect is inspired by my passion for design, and problem-solving skills developed through VEX Robotics.

The field of architecture stands at the intersection of several STEM fields. To ensure the structural integrity of buildings, one needs a solid understanding of engineering concepts, the ability to apply modern designs, and accurate math for precise measurements and design. We see architecture as the ideal blend of science and art. It allows artistic expression but requires an in-depth knowledge of materials, physics, and surroundings. The desire to improve the built environment and design places that inspire and improve people's quality of life is one of the motivating factors behind this STEM career choice.

As a result of our love of design, our foundation in engineering concepts from VEX Robotics, and our goal to combine creative and technical abilities, I have decided to choose a career in architecture as part of the STEM industry. By choosing a career in STEM, we hope to both challenge and motivate my problem-solving skills regularly, as well as make a significant contribution to the physical world.

# 1140D's engineering process





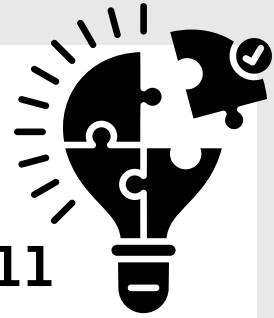
(Company we choose)



# Heerim Architects & Planners engineering process

## ideas

Laying out all ideas and Figuring out what to design.



## Sketch

starting to draw all ideas on a paper and slowly turning them into life.

## Input

going to the place of the building and seeing if everything works out. As well as getting input from others around.



## Evaluate

Making sure each and every aspect of the plan is going accordingly before starting the actual build.



# How has participation in VEX Robotics prepared you for a future career?

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Participating in VEX Robotics has been an experience that has not only improved my technical skills but has also provided me with valuable insights and lessons that are highly useful to any future career I desire.

First of all, VEX Robotics has given me a solid foundation in programming and design. Designing, constructing, and programming robots has given me first-hand exposure to a variety of equipment and technologies. In many STEM-related fields, where hands-on skills are highly valued, robotics comes in handy. In robotics, problems are unavoidable. I can now tackle challenges logically and carefully thanks to VEX Robotics, whether they are robotic issues, programming bugs, or improving the design. This approach to problem-solving is essential in any line of work because facing obstacles head-on is an important skill.

VEX Robotics is a team-oriented game by necessity. Effective collaboration, teamwork, and communication thrive when team members build and improve a robot together. Communication skills are crucial in almost all professions since most work involves collaborating with stakeholders, clients, and coworkers. Building a robot in vex robotics takes time and effort from all team members. It is important to have one person take control of the team and be the guide, telling everyone what to do, such as a team leader. Establishing goals, planning schedules, allocating resources, and adapting to unexpected developments are all transferrable abilities that I can use in a future profession, particularly in a project-based setting.







VEX Robotics competitions allow opportunities to interact with professionals, mentors, and other students who share a passion for robotics and STEM fields. Building a network can lead to future job opportunities, such as mentorship, internships, and future jobs. A component of VEX Robotics contests is the "judges interview," which involves providing judges with an explanation and defense of design decisions and strategies. My ability to express complex concepts in simple terms has improved as a result, which is a benefit in any line of work, particularly when speaking with diverse audiences.

By combining technical skills, problem-solving abilities, teamwork, team leadership, adaptability, networking, and effective communication. These are attributes that are widely valuable in the professional world. Overall my involvement in VEX Robotics has essentially been a stepping stone towards a future career.

**THANK YOU FOR READING**

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