

SHSM is for you if...

you are interested in one or more of:

- Earning valuable sector skills
- Graduating with a special designation
- Making connections in the Computer Engineering sector

Or...

if you are planning to:

- Go to University
- Go to College
- Become an Apprentice
- Go to the Work World

Employers say...
"You're hired!"



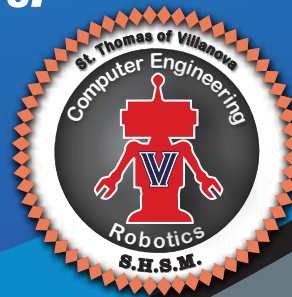
SHSM Careers

in many industries:

- Robotics and Control Systems
- Computer Programming
- Advanced Manufacturing
- Mould/Tool/Die
- Industrial/Mechanical Engineering
- Electrical
- Research & Development
- Game Design
- Integrated Manufacturing Systems
- Information Technology

in many careers:

- Robotics Engineer
- Precision Machinist
- Software Developer
- Mould Designer
- Welder
- CAD Designer
- Manufacturing Technologist
- Millwright
- Technical Sales Specialist



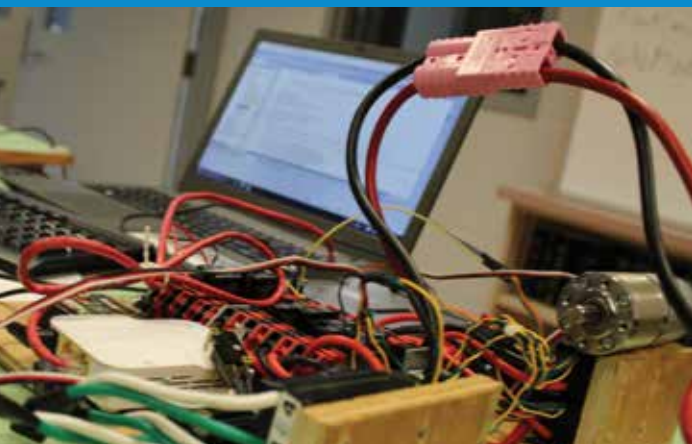
Specialist High Skills Major

Computer Engineering Robotics

**St. Thomas of Villanova
Catholic Secondary School SHSM**



- Customized High School Experience
- Ministry of Education Red Seal
- Advanced Employer Standing
- Valuable Practical Experience
 - Industry Recognized Certifications



SHSM - Computer Engineering - Robotics
St. Thomas of Villanova Secondary School

For more information,
contact Student Services
Phone: 519-734-6444



**Student Success is the mandate of the
Specialist High Skills Major Program**

Computer Engineering Robotics

focus at
St. Thomas of Villanova

Explore exciting engineering skills including:

- Robotics
- Mechanical Engineering
- Coding



Get valuable experience through partnerships with:

Sector professionals (ie. in engineering, fabrication, programming) & other forward thinking engineering and business community members.

“Learning together in faith & service.”

When can I start my SHSM?

The SHSM is open to all students. Entry should occur prior to a student’s grade 11 year, with special emphasis on scheduling a two credit co-operative placement in the computer engineering/manufacturing sector.



WINDSOR-ESSEX CATHOLIC DISTRICT SCHOOL BOARD

What skills & certifications will I earn?

Earn seven of these compulsory & additional certifications:

Standard First Aid • CPR Level C • WHMIS Certification • Health & Safety - basic
Basic Electrical Safety • Project Management • CAD/CAM • Leadership Skills

What courses do I need?

Whether you are going to University, College, the World of Work or becoming an Apprentice, there is a course choice for you. Refer to the pathway chart below to help you select courses that are right for you.

Course Choices	POST SECONDARY PATHWAYS FOR SHSM		
	College or Apprenticeship	University	Workplace
Grade 11 Majors Choose a min. of 2 courses (by pathway).	TER3M Robotics Control Systems	TER3M Robotics Control Systems	TTJ3O Transportation Technology
	ICS3C Computer Programming	ICS3U Computer Programming	ICS3C Computer Programming
	TTJ3C Transportation Technology	SPH3U Physics	
	TCJ3C Construction	SCH3U Chemistry	
<i>Grade 11 Religion is always automatically included as part of your SHSM for all pathways</i>			
Grade 12 Majors Choose a min. of 2 courses (by pathway).	TER4M Robotics Control Systems	TER4M Robotics Control Systems	TDJ4O Technological Design
	ICS4C Computer Programming	ICS4U Computer Programming	ICS4C Computer Programming
	SPH4C Physics	SPH4U Physics	
	SCH4C Chemistry	SCH4U Chemistry	
Co-operative Education	All students must take a minimum of two periods (placement equivalent to 2 credits or a half day) of co-op		