



**Electrifying the Future- Goodman School of Mines, Laurentian University**  
**Lesson Plan: The Ontario Vehicle Innovation Network Career Navigator Tool Activity for**  
**High Schools**

The Ontario Vehicle Innovation Network (OVIN) is a Government of Canada initiative established to introduce the public to the various career opportunities available in the automotive and mobility industry, particularly as a result of the increasing convergence of technologies and the exciting new space around smart mobility, which requires a range of different emerging skills.

The Goodman School of Mines, Laurentian University partnered with OVIN to create the Electrifying the Future (ETF) program, which aims to introduce today's youth to the range of opportunities and careers available in the automotive and mobility industry. Through programs such as the MineOpportunity Competition, Summer Camps and an Educational Campaign, the ETF project has reached approximately 700 students across Northern Ontario, introducing them to skills and hands-on learning activities that can lead to jobs in the automotive and mobility industries.

The OVIN Skills and Career Navigator provides resources and information for users to gain a better understanding of Ontario's automotive and mobility sector and navigate skills and career pathways to help access opportunities across the province.

It has been reported that the automotive and mobility industry will face a recruitment gap of around 30,000 people between 2021 and 2030. In response to this need, the ETF has created a lesson plan and educational campaign video to raise awareness among today's youth. Armed with this knowledge, young people can take advantage of the many promising career opportunities the industry has to offer.

The Career Pathways tools on OVIN's Skills & Career Navigator will help you find the resources, courses and information you need to discover potential careers in Ontario's automotive and mobility sector. The tool typically matches your skills, and/or your education and/or work experiences to career options that can be leveraged on.

*Let's consider a real-life example: Meet John, a high school junior with a keen interest in the automotive and mobility sector. John possesses a diverse skill set, including equipment maintenance, programming languages, battery knowledge, troubleshooting, complex problem-solving, and active listening. Recognizing the importance of charting a personalized career path, John decides to take advantage of the OVIN website's Career Navigator tool.*

*Through this tool, John embarks on an exciting journey of self-discovery. He learns that his skills and passions align perfectly with opportunities in the manufacturing sector of the automotive and mobility industry. Potential career paths include Mechanical Engineer, Electrical Electronics Engineer, Technician, or Information Systems Testing Technician, all of which offer an enticing average annual salary of \$95,000.*


*Enthralled by this revelation, John delves deeper into his career passport using the tool. Here, he gains valuable insights on how to further enhance his skills to become an ideal candidate for his chosen career path. With determination and a clear vision for his future, John sets his sights on pursuing a degree in Electrical Engineering at the university level.*

How can you uncover your career pathway using the OVIN Career Navigator tool-

1. **Through the Personalized Career Pathways-** Get your own tailored career guide to the industry based on your skillset, experience, and education. Sign up by clicking on this link- <https://ovin-navigator.ca/career-pathways-overview/>  
It takes approximately 3mins to finish the entire process

## Step-by-step on how to use the personalized career pathways

### Step 1- Sign Up

**OVIN**  
ONTARIO VEHICLE INDUSTRY NETWORK

**Ontario**

About

Automotive & Mobility Sector

Talent Strategy & Roadmap

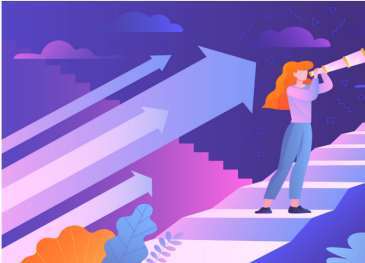
Skills & Career Pathways

Labour Market Insights


## Personalized Career Pathways

Get your own tailored career guide to the industry based on your skillset, experience, and education! Powered by FutureFit AI, the Personalized Career Pathway will direct you to educational pathways and opportunities to help you achieve your desired career.

[Sign Up](#)



### Step 2- Insert your email address and Password

**OVIN** ONTARIO VEHICLE INDUSTRY NETWORK


## Sign In

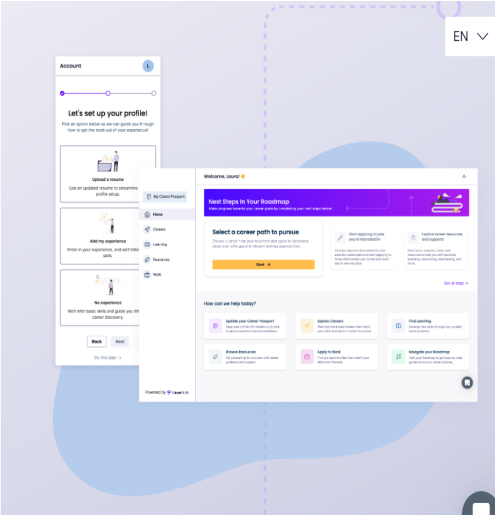
Don't have an account? [Sign up now](#)

Email

Password [Forgot your password?](#)

[Submit](#)

Powered by  FutureFit AI



## Step 3- Create a profile

Profile

Nice to meet you! Your experiences Let's go!

**Nice to meet you!**  
Let's start building your profile so we can match you with careers, jobs, resources, and more!

First name

Last name

Location

This helps us recommend local jobs and support.

Zip/postal code

Phone number

Your zip/postal code and phone number help us recommend local jobs and support.

Next

## Step 4-Either upload your Resume, or Add any work experience you have or click on No Experience

Profile

Nice to meet you! Your experiences Let's go!

**Let's set up your profile!**  
Pick an option below so we can guide you through how to get the most out of your experience!

**Upload a resume**  
Use an updated resume to streamline your profile setup.

**Add my experience**  
Enter in your experience, and we'll infer your skills.

**No experience**  
We'll infer basic skills and guide you through career discovery.

Back Next

Do this later →

## Step 5- Confirm your skills profile as generated from either your resume, work experience or the skills set you inserted

Profile

**Confirm your skills profile**  
Below we've identified skills you might have based on the work and education experience you've shared. Update your skills profile by adding or removing skills to get relevant career and learning recommendations.

**Technical**

Bank Services and Products Recommendation X Billing X Budgeting X Business Management X Change Management X

Contract Management X Data Analysis X Document Retrieval X Filing X Financial Acumen X Fine Arts X

International Business X Legal Compliance X Lifecycle Management X Market Analysis X Monitoring X Negotiation Skills X

Professional Engineer X Project Management X Project Scope Definition X Purchasing X Risk Assessment X

Service Level Agreement X Stakeholder Management X Strategic Planning X Surveys X Work breakdown structure X

Customer Service X Scheduling X Project Planning and Development Skills X Microsoft Project X Contract Administration X

Contract Preparation X Contract Review X Procurement X Procurement Contracts X Contract Negotiation X

Contract Drafting X Request for Proposal (RFP) X Legal Support X Litigation X Administrative Support X

Legal Documentation X Legal Document Composition X Secretarial Skills X Transcription X Customer Billing X

**Foundational**

File Management X Leadership X Listening X Multi-Tasking X Planning X Presentation Skills X Quick Learner X

Research X Team Building X Timelines X Building Effective Relationships X Communication Skills X Detail-Oriented X

## Step 6- Answer some general questions

Profile

Nice to meet you!

Your experiences

Let's go!

Some final questions...

Please note that any EDI questions are completely voluntary and if you wish not to answer you do not have to.

Which gender do you most identify with?

Please select any communities you identify with.

☐ LGBTQIA2S+

☐ Black (e.g., African, American, Canadian, West Indian / Caribbean)

☐ Rural and remote

☐ French-speaking (Francophone)

☐ Indigenous (First Nation, Inuit or Métis)

☐ Newcomer to Canada

☐ Racialized Group

☐ Prefer not to disclose

☐ Other

Which of the following best describes you?

☐ Student

☐ Employer

☐ Job seeker

☐ Other

What is your highest level of education? \*

## Step 7- Your Career Passport has been created, Click on Start

My Career Passport

Home

Careers

Learning

Resources

Work

Next Steps in Your Roadmap

Make progress towards your career goals by completing your next steps below!

Select a career path to pursue

Pick a career from your recommended paths to learn about your skills gap and find relevant learning opportunities.

Start →

View your learning recommendations

View recommended learning opportunities to start making progress on the skills you need for your selected career path.

Explore career resources and supports

Find career supports, tools, and resources to help you with personal branding, networking, interviewing, and more.

See all steps →

How can we help today?

Update your Career Passport

Keep your profile information up to date to get personalized recommendations.

Explore Careers

View recommended careers that match your skills and select a career to pursue.

Find Learning

Develop new skills through our curated learning library.

Browse Resources

Set yourself up for success with career guidance and support.

Apply to Work

Find job opportunities that match your skills and interests.

Navigate your Roadmap

Visit your Roadmap to get step-by-step guidance on your career journey.

## Step 8- Explore your recommended Career pathways

OVIN Ontario ROIV

Careers

My Career Passport

Home

Careers

Learning

Resources

Work

Recommended for you

Select a career path below to view recommended learning and next steps

Sort by: Skills score ▾

69% MATCH

Construction Manager

\$79,420 ↗ Very High Demand

Manages construction projects from project planning through completion. Manages project budget and schedule; works closely with architects, engineers, trades workers,...

Learn more

Select career path

67% MATCH

Operations Manager

\$85,080 ↗ Very High Demand

Manages daily operations and activities for a company or organization. Supervises staff, oversee projects and daily work activities. May have responsibility for managing supplie...

Learn more

Select career path

65%

IT Project Manager

\$93,616 ↗ Very High Demand

Manages projects for a company in the information technology industry. Projects may include initiatives to create new products or improve or expand technology or systems....

Learn more

Select career path

My next steps 1/5

Select a career path to pursue

Pick a career from your recommended paths to learn about your skills gap and find relevant learning opportunities.

See all steps






Powered by FutureFit AI

2. **Through the Curated Career Pathways-** These pathways guide you through potential careers in the automotive and mobility sector based on various industry areas. Explore career pathways and opportunities, including internships, and learn more about the skill sets required to succeed in those positions.

Explore by clicking on this link- <https://ovin-navigator.ca/career-pathways-overview/>







**Step 1- Select the category that describe your current level**

**1. Select your profile:**

 <b>Young Learners</b> Elementary school students <a href="#">Select</a>	 <b>High School Students</b> Middle school and high school students <a href="#">Select</a>	 <b>Post-Secondary Students</b> University, College and Training Institution Students <a href="#">Select</a>	 <b>Professionals</b> Professionals at all career stages <a href="#">Select</a>	 <b>Employers</b> Employers in the automotive and mobility sector <a href="#">Select</a>
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**Step 2- Choose any of the segment sector that interest you**

**2. Select a segment of the sector:**

 <b>Connected &amp; Autonomous Vehicles (C/AV)</b> The research, development, testing and operation of C/AV technologies. <a href="#">Select</a>	 <b>Auto &amp; Parts Manufacturing (APM)</b> The manufacturing and assembly of auto parts. <a href="#">Select</a>	 <b>Tool, Die &amp; Mold (TDM)</b> Making, repairing and modifying prototypes and special tools for auto industry. <a href="#">Select</a>
 <b>Aftermarket, Maintenance &amp; Repair (AMR)</b> Auto inspection, repair, replacement and service. <a href="#">Select</a>	 <b>Freight &amp; Goods Movement</b> The transportation and warehousing of goods and providing logistics services. <a href="#">Select</a>	 <b>Mobility Planning &amp; Infrastructure</b> The planning, design, development and management of mobility services and infrastructure. <a href="#">Select</a>

**Step 3- Select a career pathway that you want to pursue**

**3. Select a career pathway to explore:**

 <b>Design and Testing</b> The research, design and testing of C/AVs. <a href="#">Explore</a>	 <b>IT Design</b> Developing hardware and software for use in C/AVs <a href="#">Explore</a>
 <b>Cybersecurity</b> Protecting the data collected and communicated by C/AVs and related infrastructure. <a href="#">Explore</a>	 <b>Quality Assurance</b> Ensuring quality throughout the vehicle manufacturing process. <a href="#">Explore</a>

## Step 4- Explore the Technical and Non Technical Skills, Course based learning opportunities, Experiential Learning Opportunities and Potential occupations

### Design and Testing

The Design and Testing group of occupations are involved in the ongoing research, design, and testing of C/AV projects. Each of these occupations has a hand in the early development and design of vehicles, aftermarket devices, and connected infrastructure.



	Technical Skills in Design and Testing	▼
	Non-Technical Skills in Design and Testing	▼
	Course-based Learning Opportunities	▼
	Experiential Learning Opportunities	▼
	Potential Occupations in Design and Testing	▼

Get a unique, personalized career guide to the industry based off your experience, interests and education.

Sign Up

## Step 5- Sign up for personalized career pathways as described above to match a career option.

Learn more about the jobs in demands in the Automotive Industry by visiting the Labour Market Insight on this link- <https://ovin-navigator.ca/labour-market-insights/lmi-data/>

### Interactive Question

1. What are your skills? Name between 3-6 skills that you identify with.
2. From the skills highlighted in the navigator tool, select two careers that matched your skillset. For each career, fill out the information in the table below.

	CAREER MATCH #1	CAREER MATCH #2
CAREER NAME		
CAREER DESCRIPTION		
AVERAGE SALARY		
LEVEL OF DEMAND		
WHAT KIND OF CREDENTIALS YOU NEED TO QUALIFY FOR THIS CAREER		
YOUR INTEREST IN THIS CAREER. WHY?		