

Clean Transportation Industry 101

Welcome attendees!

The webinar will begin momentarily.



Dr. Dina Humble
Vice President of Instruction,
San Bernardino Valley College



Vanessa Thomas
Dean of Applied Technology,
Transportation, and Culinary Arts,
San Bernardino Valley College



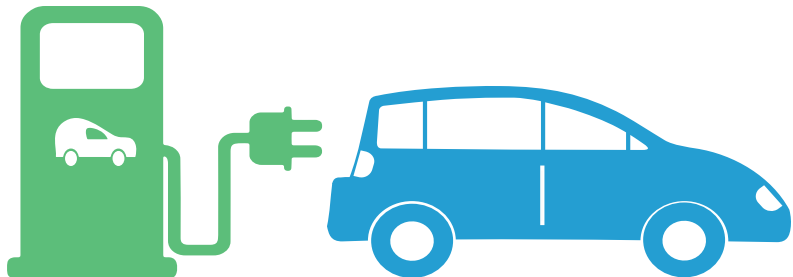
Dr. Beverly Scott
Founder/CEO,
Introducing Youth to
American Infrastructure



Tony Sciarra
Workforce Development &
Education Programs Manager,
Tesla



Jared Schnader
Program Manager,
CALSTART



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Agenda

- ❖ **Webinar Introduction:** Jared Schnader
- ❖ **CTE Pathways at San Bernardino Valley College:** Dr. Dina Humble & Vanessa Thomas
- ❖ **Introducing Youth to American Infrastructure (IYAI):** Dr. Beverly Scott
- ❖ **Tesla:** Tony Sciarra
- ❖ **Questions & Answers**



San Bernardino Valley College



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CTE PATHWAYS @ SAN BERNARDINO VALLEY COLLEGE

*“GETTING OUR STUDENTS GRADUATED AND OUT
TO THE WORKFORCE”*

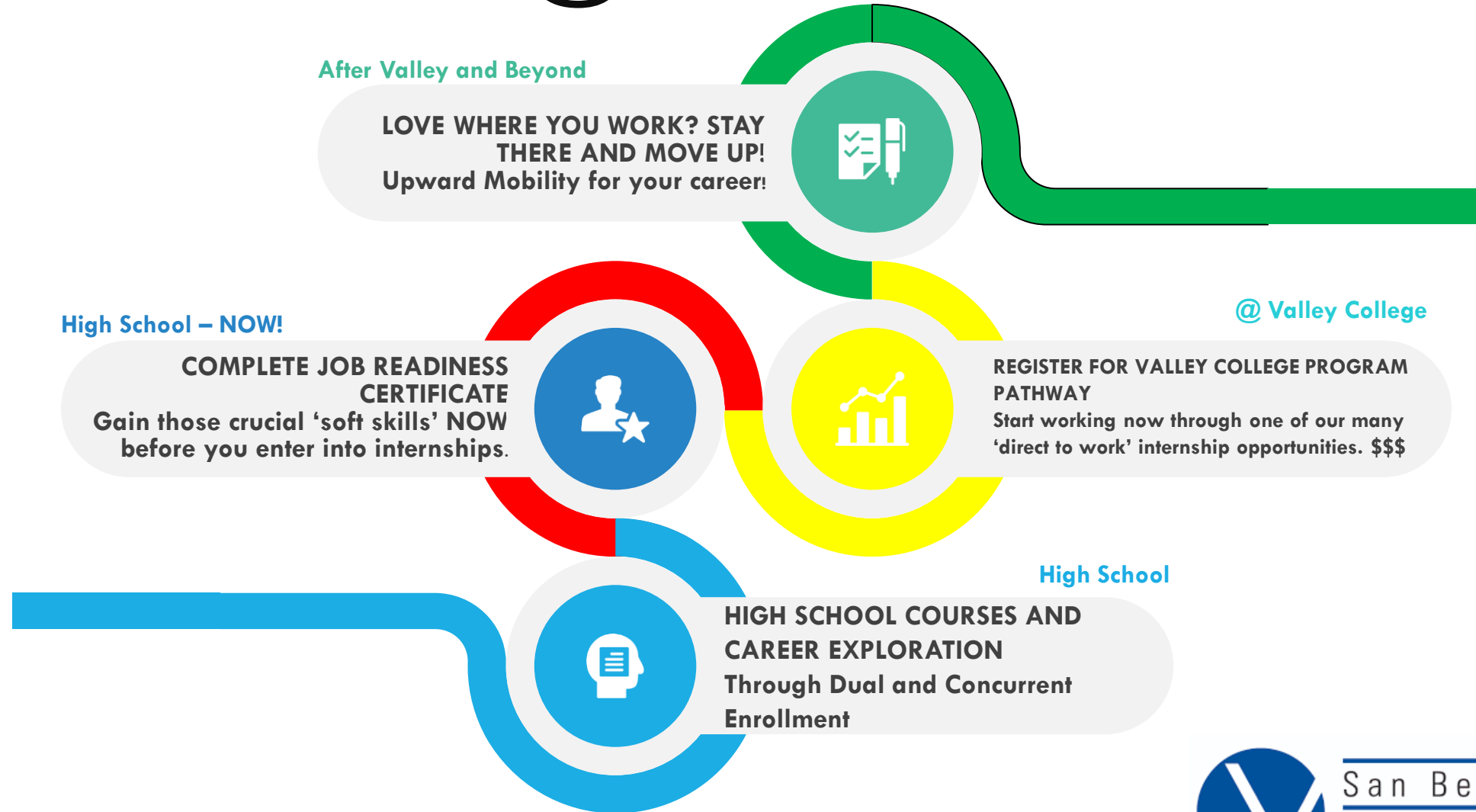
*Dr. Dina Humble, Vice President of Instruction
Vanessa Thomas, Dean of Applied Technology,
Transportation and Culinary Arts*



San Bernardino
Valley College



CAREER PATHWAYS @ VALLEY COLLEGE



San Bernardino
Valley College

Guided Pathways

Career Fields at SBVC



Common Transferable Skills

<u>Skill Set</u>	<u>Description</u>	<u>Examples</u>
Basic skills	These are skills needed by almost all workers.	Learn new things, Listening, Math, Reading, Science, Speaking, Think critically, Writing
People skills	These are some of the most needed and wanted skills.	Be aware of others, Coordinate with others, Help others, Negotiate, Persuade, Teach others
Management skills	All workers need these skills, not just managers.	Managing money, Managing people, Managing things, Managing time
Systems skills	Can you understand how parts and wholes work together? Then you have systems skills.	Evaluate a system, Evaluate an organization, Understand a system Make good decisions
Technical skills	Technology includes computers and equipment.	Choose tools, Control quality, Install equipment, Install programs, Maintain equipment, Check equipment, Operate equipment, Repair Troubleshooting

SOME CTE PROGRAMS @ VALLEY



Automotive Technology
(Electric and Alternative Fuels)

Aeronautics and Aviation

Electronics Technology

Green Technician

HVAC

Heavy Medium Duty Truck
(Electric and Diesel)

Machining

Welding

Zero Net Energy



FOR EXAMPLE: ELECTRONICS





SALARY FOR LIFE

Average Electrician Journeyman Hourly Pay



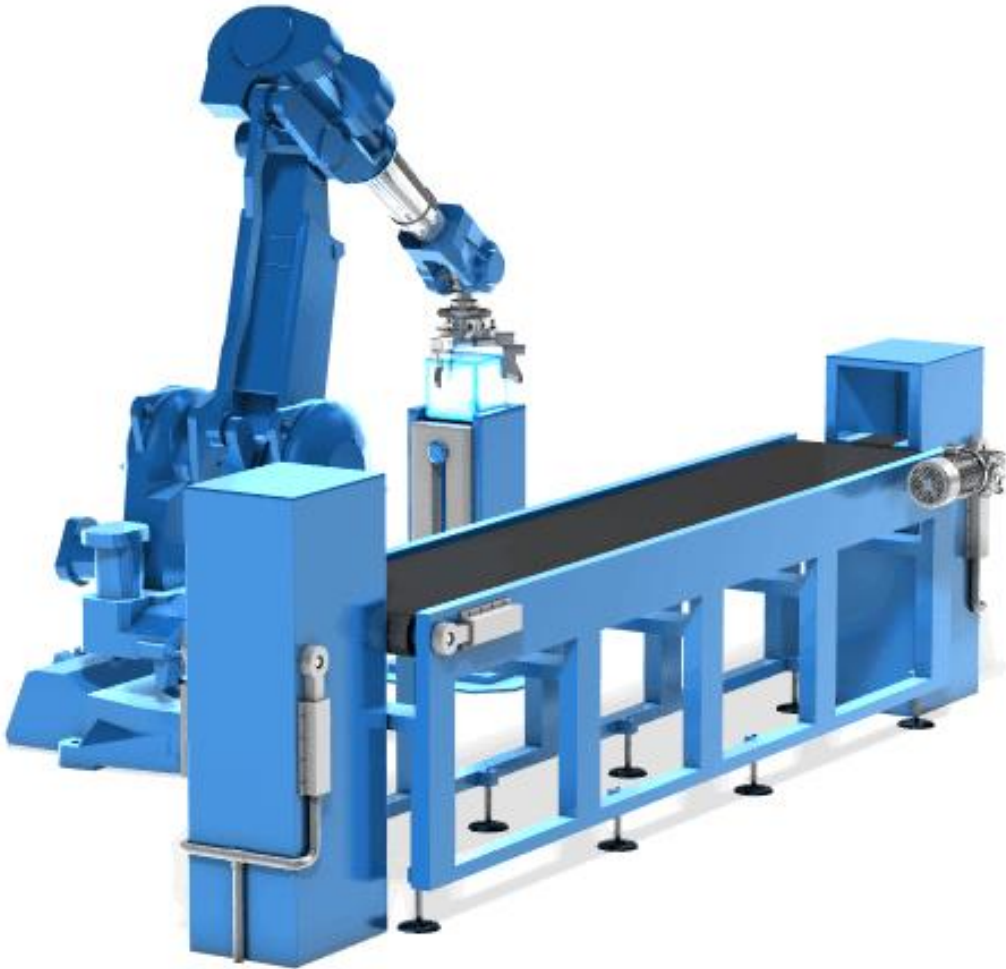
Lifetime Potential Salary: \$1, 700,000

From Diesel to Electric – Heavy Duty Medium Truck Program



NOT JUST A JOB, BUT A CAREER

For today and for the future.



VANESSA THOMAS, DEAN



- ✓ Learn skills for your career.
- ✓ Upward mobility.
- ✓ Women in CTE.
- ✓ Learn while you earn at Valley College.

APPLIED TECHNOLOGY



SKATE THROUGH AND UNLOCK YOUR FUTURE



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Thank you

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#valleypathways

Introducing Youth to American Infrastructure (IYAI)



Dr. Beverly Scott
Founder/CEO,
Introducing Youth to American Infrastructure



WPA +
introducing youth to
AMERICAN
infrastructure



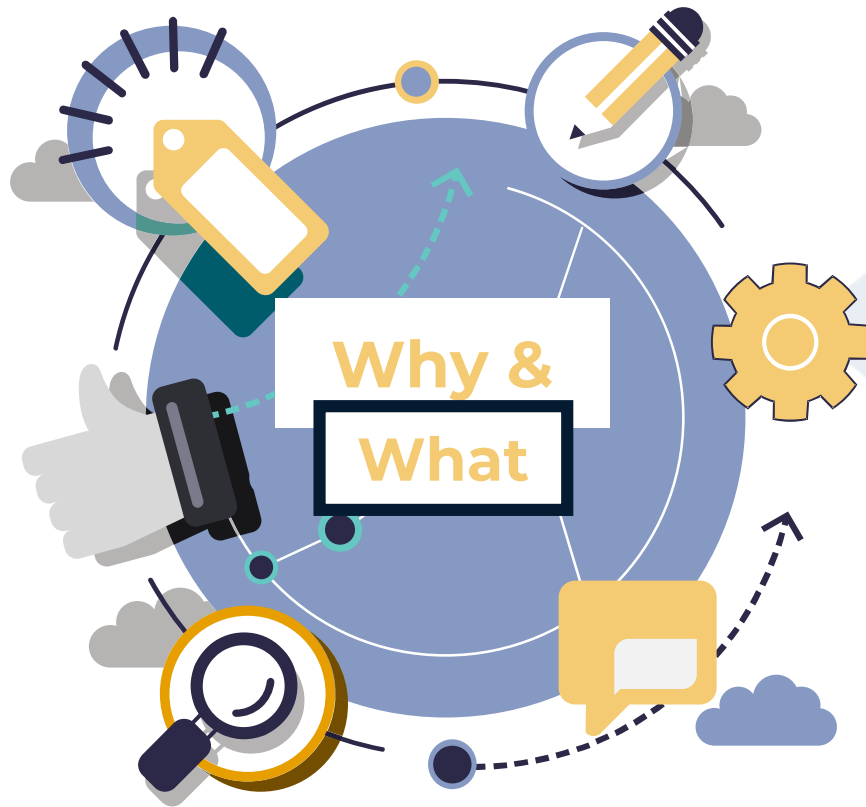


Motivating Today's Youth to Become
Tomorrow's Infrastructure Leaders,
Skilled Workforce, Innovators,
Entrepreneurs

— “Community Builders” —

igai+

“Why” and “What” Infrastructure?



BACKBONE of Our Daily Lives and Communities

Decision-Making with **GENERATIONAL IMPACTS** – “People”, “Communities”, “Society”

Systemic **UNDER-REPRESENTATION** of “People of Color” and “Women”

Major **OPPORTUNITIES** – Community-Building, Careers, Business Development

MAKING A DIFFERENCE – “YOUR” LEARNED EXPERIENCE, “YOUR” VOICE, “YOUR” JOURNEY!



“Based on the pending retirements of older workers in our infrastructure sectors, our nation currently needs more than 14 million workers just to keep current systems running. An infrastructure investment of \$1 trillion dollars would require an additional 11 million skilled workers.”

Andy Van Kleunen, CEO, National Skills Council

Poll:

What is Critical National Infrastructure?

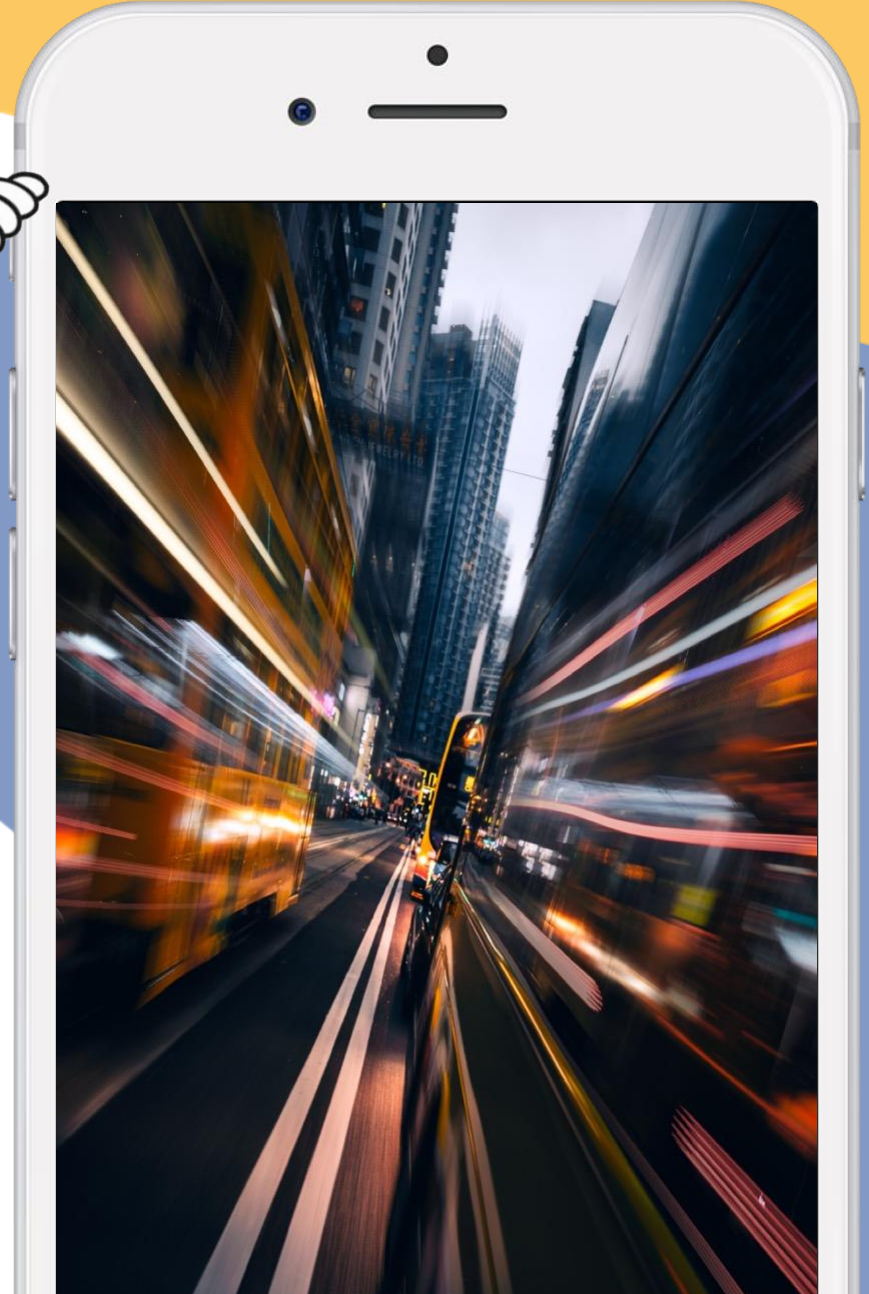
- ✓ ENERGY
- ✓ TRANSPORTATION
- ✓ WATER
- ✓ COMMUNICATIONS
- ✓ MANUFACTURING
- ✓ HEALTHCARE
- ✓ PUBLIC HEALTH
- ✓ FOOD/AGRICULTURE
- ✓ DEFENSE
- ✓ DAMS
- ✓ CHEMICAL
- ✓ NUCLEAR REACTORS
- ✓ INFORMATION TECHNOLOGY
- ✓ EMERGENCY SERVICES
- ✓ FINANCIAL/BANKING
- ✓ COMMERCIAL FACILITIES
- ✓ GOVERNMENT FACILITIES

iyai+Approach



Infrastructure is all
around us – often
“hidden” in plain
sight.

“Start by Looking, Planning
& Working in Your Own
Backyard!”





The Transportation Learning Center

The Transportation Learning Center is a **nonprofit** organization dedicated **to improving public transportation** at the **national** level and within **communities**. To accomplish this mission, the Center builds **labor-management training and apprenticeship partnerships** that improve organizational performance, expand **workforce knowledge, skills** and **abilities**, and promote **career advancement**.





Opportunities to Work with Green Technology

- Protecting the environment through expanding use of **green alternatives**
 - Hybrid buses
 - Fully electric buses
 - Natural gas buses
 - Diesel buses
 - Solar-powered facilities
 - Regenerative braking

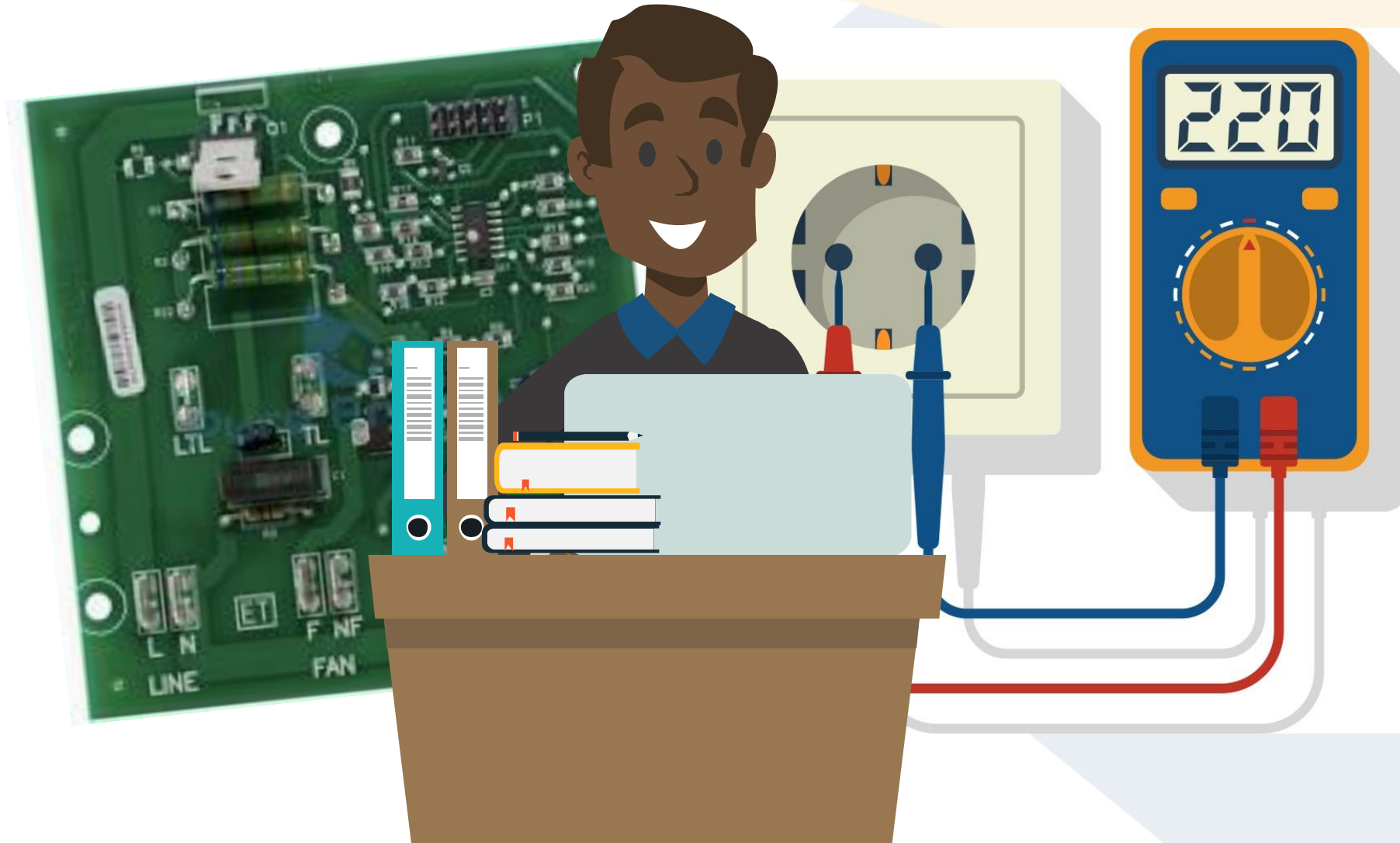


(Source: <http://www.nextstopstl.org/>)

Battery electric buses will be the norm in the industry. Technicians need the skills to maintain them!



Impending Zero-Emission Mandates

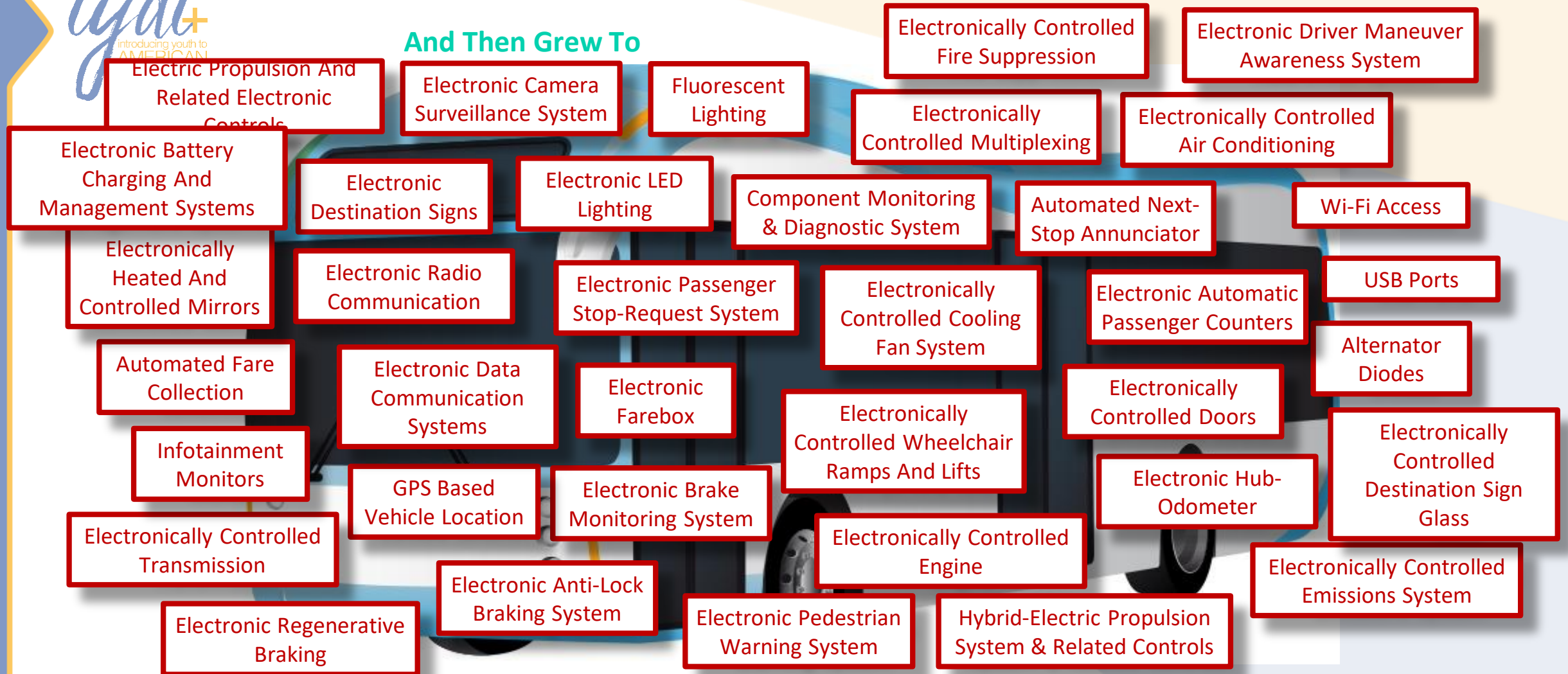


Expansion of Bus Electronics

It All Started With:



And Then Grew To





**Beverly A. Scott,
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Tesla



Tony Sciarra
Workforce Development &
Education Programs Manager,
Tesla



TESLA

TONY SCIARRA – WORKFORCE DEVELOPMENT



OUR MISSION

Accelerate the world's transition to sustainable energy

An abstract graphic featuring sharp, overlapping geometric shapes in shades of blue and white, set against a dark, textured background. The shapes create a sense of depth and movement, resembling a stylized architectural element or a modern logo.

HISTORY OF TESLA



THE FUTURE WE WANT



Generation



Storage



Transport

TESLA START

Tesla START is a 12-week intensive, technical training program, equipping future technicians with the skills and expertise to be successful technicians and grow their careers within Tesla. Upon graduation, successful students have the opportunity to become mid-level technicians in our rapidly expanding network of Tesla Service Centers and Mobile Service Units.

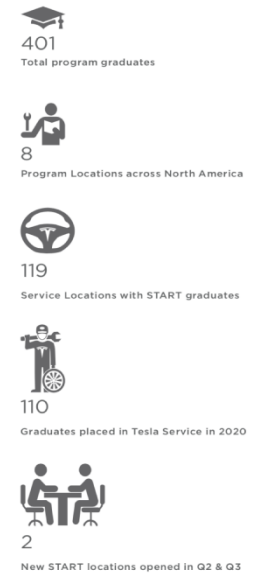
The Program

Locations

NORTH AMERICA LOCATIONS



Results



FIND YOUR PLACE

TRANSPORT

ENERGY STORAGE

SOLAR



INCREASE YOUR ODDS

Why Tesla

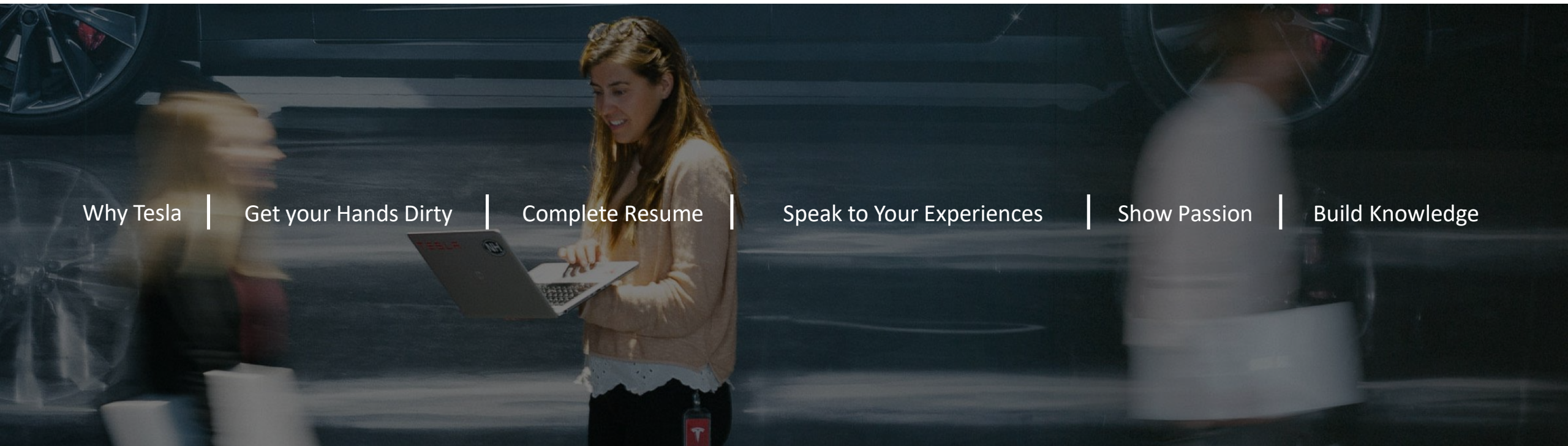
Get your Hands Dirty

Complete Resume

Speak to Your Experiences

Show Passion

Build Knowledge



THANK YOU



TESLA



Thank you!

We will now open it up for a Q&A session.

Contact Today's Speakers

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