



YOLANDA

INDUSTRIAL ENGINEER

GENERAL MOTORS

TOP 5 SKILLS AND ABILITIES

Advanced Math & Data Analysis

Complex Problem Solving

Project Management

Team Facilitation & Leadership

Engineering Design Process

CURRICULUM RESOURCES

- You Are an Engineer (K-2)
- Conveyor Engineering (3-5)
- Take it Slow (6-8)
- It's a Numbers Game (9-12)

ABOUT YOLANDA

Yolanda is an industrial engineer for General Motors in Bedford, Indiana. With the help of data analysis and statistics, she designs systems that check automotive components for mistakes and scrap any defective parts before they're assembled into vehicles. Yolanda's work helps GM know their production line is making high quality products as efficiently as possible.

Growing up in the Dominican Republic, Yolanda enjoyed math. Her mother owned a small business and she wanted to find a career path that combined math and business.

“Engineering is about how to make things and how to make them better.”

She found her fit in the industrial engineering program at her college, where entrepreneurship, statistics, and engineering training were combined to improve production and increase efficiency.

Industrial engineers create systems that help people, machines, materials, and plans work together to create a product. They use mathematics and data analysis to create solutions for assembly line design, worker safety strategies, or, like Yolanda, ensure that the line is producing quality components. Industrial engineers usually have a bachelor's degree and most colleges and universities have specific degree paths for this career. Other engineers, such as mechanical and electrical, may also do work that would be considered industrial engineering.

[Click here to see Yolanda on the job!](#)

Related Careers	Required Degree or Certification	Median Income
Production Planner	High School or Certificate	\$47,540
Industrial Engineering Technician		\$49,400
Quality Control Analyst	Associate Degree	\$59,000
Manufacturing Engineer Techologist		\$60,260
Logistics Engineer		\$69,400+
Manufacturing Engineer	Bachelor Degree	\$76,010
Industrial Engineer		\$76,730
Mechanical Engineer		\$83,600+
Electrical Engineer		\$88,020+

POST-SECONDARY PROGRAMS IN ENGINEERING TO EXPLORE

Ivy Tech

- Process Operations Technology Certificate
- Quality Assurance Certificate
- Automation and Robotics Technology Certificate
- Engineering Technical Certificate
- Engineering (AS)
- Engineering Technology (AS)
- Advanced Automation and Robotics Technology (AS)
- Industrial Technology

Vincennes

- Industrial Technology Certificate
 - Product Design and Production Processes (AS)
 - Industrial Engineering (AS)
 - Industrial Development (BS)
 - Engineering Science (Purdue/VU Transfer)
- *Jasper and Vincennes campuses

Purdue University

- Mechanical Engineering