

Mechanical Engineering

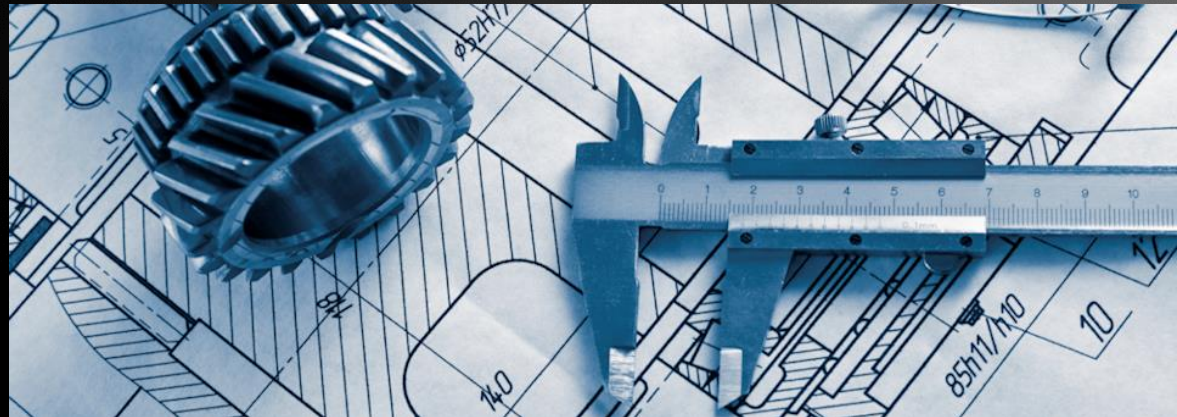
Lucia Garay



Nature of Work

Mechanical Engineers Duties include the following:

- Analyzing problems
- Researching ways to help solve the problem
- Designing or redesigning mechanical and thermal devices using analysis and computer-aided design
- Developing and testing prototypes of designs they created
- Analyzing test results and possibly improving the design
- Overseeing the manufacturing process for the device



Required Skills

- Creativity
- Problem-Solving skill
- Mathematics
- Science

Video 1

Day in the Life: Mechanical Engineer

Video 2

Mechanical Engineer - Profiles of Scientists and Engineers

- <https://www.youtube.com/watch?v=ocqceS7KlzE>
- <https://www.youtube.com/watch?v=O9JBt-3COFI>

Job Outlook

- 2012 Median Pay was about \$80,580 per year & \$38.74 per hour
- Lowest 10% earned less than \$52,030
- Top 10% earned more than \$121,530.
- Expected growth rate 5%

The top five engineer employing industries are listed in the chart below.



Computer and electronic product manufacturing	\$84,860
Architectural, engineering, and related services	\$84,030
Transportation equipment manufacturing	\$83,540
Machinery manufacturing	\$72,270
Fabricated metal product manufacturing	\$69,890

Ford Motor Company

- Founded on June 16, 1903
- Founder Henry Ford
- Headquarters Dearborn, Michigan
- Designed and created the Model T automobile
- Creation of the Model T led to the development of the assembly line production concept



J.C. Bamford Excavators Limited

- Also known as JCB
- Founded 1945
- Founder Joseph Cyril Bamford
- Headquarters at Rocester, Staffordshire, United Kingdom
- Designs and manufacturing equipment for construction, demolition and agriculture



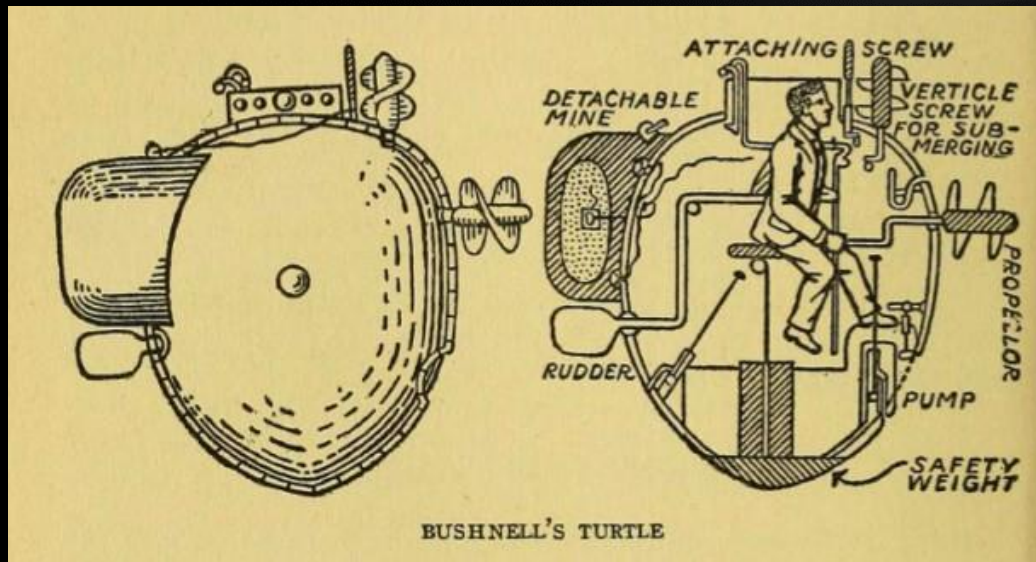
Willis Carrier

- 1876-1950
- American inventor
- Invented the first modern air conditioning



David Bushnell

- 1740–1824
- Credited for creating the first submarine
- His creation launched in 1776 and became known as the Turtle
- At age 31, he attended Yale



Bibliography

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