Infographic: Be an Engineer

Leroy L. Long III  
*Embry-Riddle Aeronautical University - Daytona Beach*, longl2@erau.edu

William Wanyagah  
*Embry-Riddle Aeronautical University*, wanyagaw@my.erau.edu

Follow this and additional works at: [https://commons.erau.edu/publication](https://commons.erau.edu/publication)

Part of the Higher Education Commons, Science and Mathematics Education Commons, and the Secondary Education Commons

Scholarly Commons Citation


This Infographic is brought to you for free and open access by Scholarly Commons. It has been accepted for inclusion in Publications by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu, wolfc309@erau.edu.
BE An Engineer

- Computer Science and CAD
- Calculus and Statistics
- Physics, Biology and Chemistry
- Become a mentee (6)
- Take higher level AP or IB courses (7)

STEM
Science-Technology Engineering-Math

Research the various STEM fields and find your fit (6)
Join a summer camp
Make your summer productive (5)

Apply for internships

Work on summer projects

Research and apply financial aid opportunities (3)

Volunteer in your community and find leadership roles (4)

Play computer and video games such as Tetris
Build your visualization skills (1)
Play with toys such as legos, 3D Blocks and puzzles
Use apps, quizzes and online games for building these skills

Research and begin the application process of the many engineering schools (2)

Designed by William Wanyagah (Wanyagaw@myerau.edu) - engineering student
Supervised by Dr. Leroy Long (LongL@JGerau.edu) - engineering professor
Resources

1. Websites such as learn4good.com and mindgames.com provide games for developing visual skills.

2. USNews.com provides great information on colleges, as well as the application process for each.

3. Websites such as collegeboard.org and Unigo.com offer thousands of scholarship opportunities to both students in college and those looking to go.

4. Volunteer match provides information on many volunteer opportunities in various communities.

5. Although collegechoice.net is used for finding colleges, it can also be used to find summer programs for high school students. The SEEK program under NSBE also provides great summer opportunities.

6. Onetonline.org gives you descriptions on various STEM fields.

7. Collegeboard.org provides all the information on AP and IB courses for high school students.

8. Big brother programs are active in many communities. Websites such as mentoring.org provide faculty and community leaders with the resources to create mentor programs. mynsbe.org/participate/mentoring Also provides information on becoming a mentee.

STEM apps for young students

View thousands of images from shuttles to galaxies and stars on the NASA app.

Test your mind with quizzes and games using the Brain Pop app.

Explore basic physics in the Simple Machines app that features pulleys, levers, wheels and so much more.

Design and test your own exoskeleton and mechanisms in The Robot Factory app.