Publications

2018

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

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.
BE An Engineer

- Calculus and Statistics
- Physics, Biology and Chemistry
- Computer Science and CAD

Take higher level AP or IB courses (7)

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

Volunteer in your community and find leadership roles (4)

Become a mentee (8)

- Play computer and video games such as Tetris
- Build your visualization skills (1)
- Use apps, quizzes and online games for building these skills
- Research and begin the application process of the many engineering schools (2)
- Research and apply financial aid opportunities (3)

Design by: William Wanyagah (Wanyagaw@myera.edu) - engineering student
Supervised by: Dr. Leroy Long (LongL2@era.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