

Engineering, Design and 3D Printing Learning from Home: **The Stratasys Student & Educator Resource Guide**



Learn More about 3D Printing

Explore 3D Printing

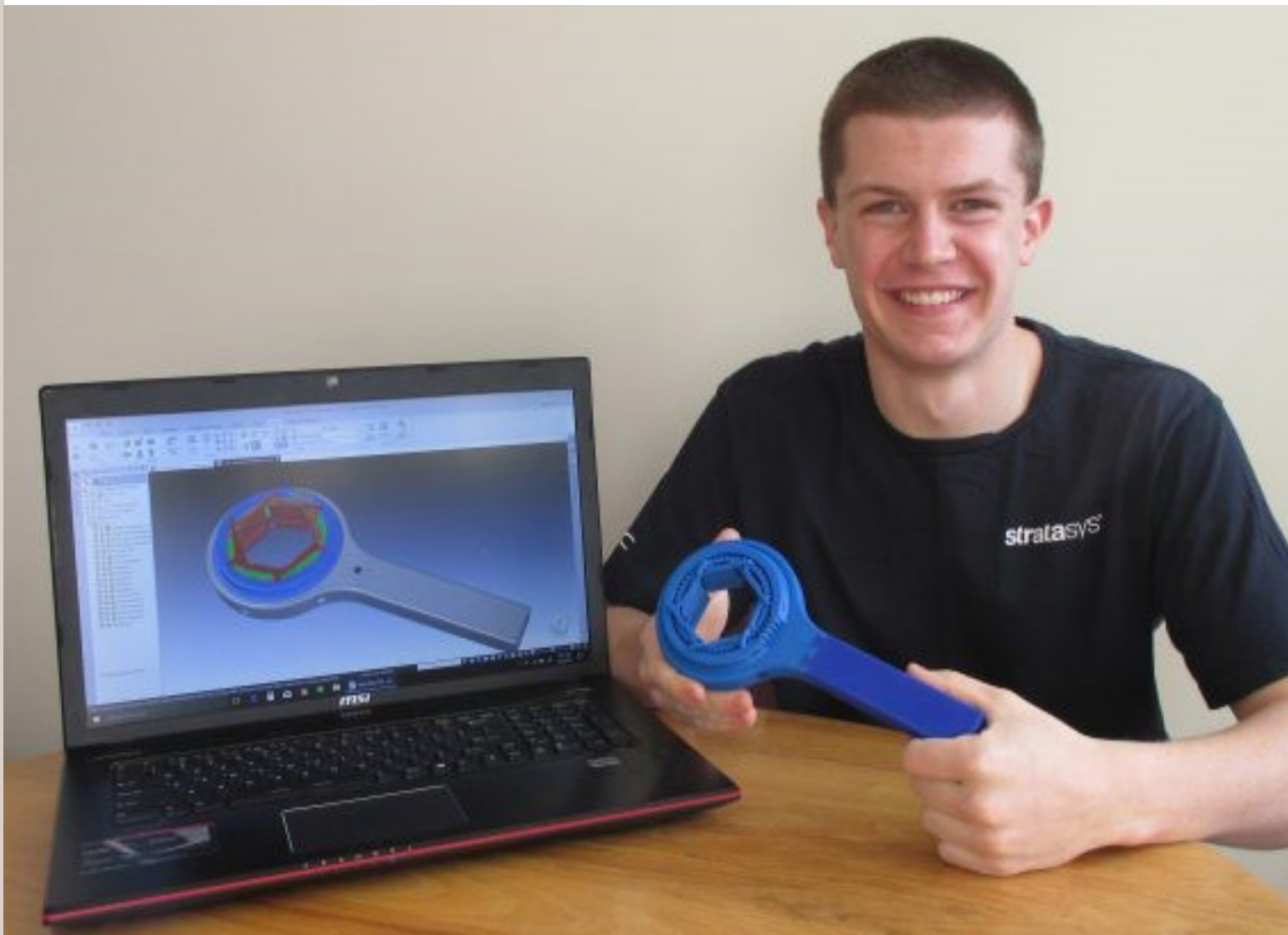
Find everything from the basics and history of 3D printing to specific applications, case studies and videos.

www.stratasys.com/explore

TAGs - Technical Applications Guides

Use these step-by-step guides used by Stratasys industry tooling customers are great tools for simulating and solving real-world challenges. Try one!

<https://support.stratasys.com/applications>



Do Cool Projects or Enter Challenges

Extreme Redesign Student Competition

This contest asks you, the student, to redesign an existing product to improve how a task is accomplished, or design something entirely new that addresses an unmet need. This is a quest to find the most creative, mechanically sound and realistically achievable design using 3D printing. This year's Challenge is open until April 21st, 2020.

<http://www.stratasys.com/extreme-redesign>

NASA Regolith Advanced Surface Systems Operations Robot (RASSOR) Bucket Drum Design Challenge

NASA is seeking to challenge the GrabCAD Community by sponsoring an open competition in which participants design a bucket drum for RASSOR that will provide the maximum amount of regolith extraction and retention while remaining free of obstructions during loading and unloading.

<https://grabcad.com/challenges/nasa-regolith-advanced-surface-systems-operations-robot-rassor-bucket-drum-design-challenge>

Engineering's Hottest Project "Drones"

Whether or not you have access to a 3D printer, you can use these video project ideas to encourage creativity and sharpen 3D design skills.

Video: Wentworth's Launch Day: <https://www.youtube.com/watch?v=WkKd3v3nWD4>

Drone Guide & List of Components: https://www.stratasys.com/-/media/files/explore/white-papers/quadcopter-drone/wp_fdm_quadcopter_a4_1216a-web.pdf

Make Something That Moves Something Curriculum

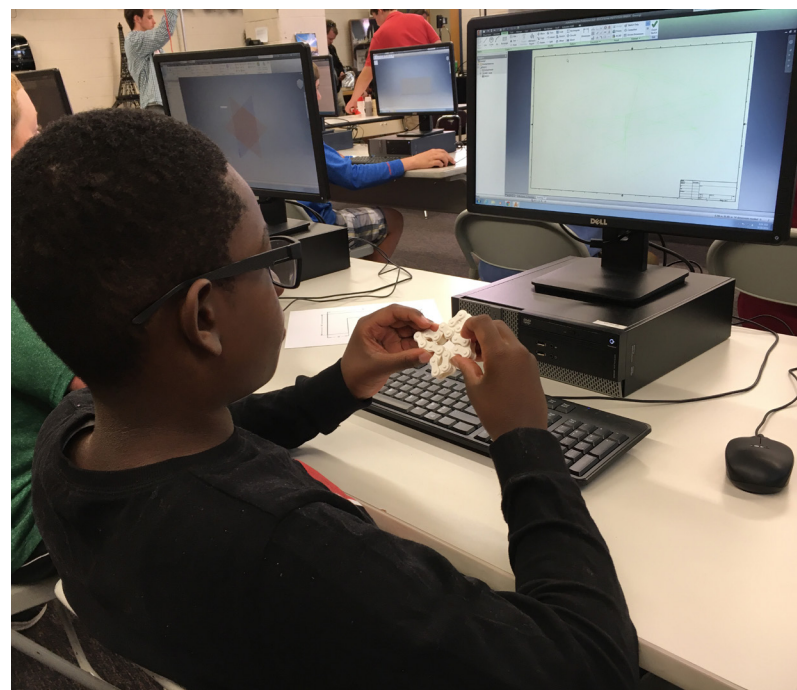
This full semester curriculum goes from A to Z – teaching the basics of additive manufacturing (aka 3D Printing) all the way through designing, testing and printing a complex gear system. Want to learn all about 3D Printing on your own and do some cool projects check it out!

<http://www.stratasys.com/education>

Additional 3D Printing Project Ideas

Want to explore projects like an organizer, camera accessories, catapult, glider, weight supporting structures, and more!

www.stratasys.com/resources/search/education-materials/3d-printing-project-ideas-videos-lesson-guides



Explore and Join Communities

GrabCAD Community

A place where engineers and designers from around the world can share their CAD models, learn from one another, and tackle the world's challenges. With over 4 million members from 196 countries, there is no problem too big, no question too tough and no modeling job too detailed for the GrabCAD Community to tackle. If you haven't already, create an account and unlock what GrabCAD has to offer.

<https://grabcad.com/community>

Thingiverse

This MakerBot resource provides thousands of resources and files for 3D printing. It also provides a community where educators can exchange best practices or remix projects.

www.thingiverse.com



Collaborate with Others

GrabCAD Workbench

Want to work collaboratively on a CAD design?
Start a group on Workbench.

<https://grabcad.com/workbench>

GrabCAD Groups

Groups provide a space to communicate about shared interests and topics about 3D printing and 3D design. Check out and join established groups or create your own.

<https://grabcad.com/groups>

CONTACT US

For any educational requests, suggestions or to submit your designs for a chance to get your project printed email the Stratasys Education Team at: **edu.curriculum@stratasys.com**

For any requests specific to helping the education or medical community with COVID-19 related projects please email us at **StratasysHelps@stratasys.com**

Stratasys Headquarters

7665 Commerce Way,
Eden Prairie, MN 55344
+1 800 801 6491 (US Toll Free)
+1 952 937-3000 (Intl)
+1 952 937-0070 (Fax)

stratasys.com
ISO 9001:2015 Certified

1 Holtzman St., Science Park,
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000
+972 74 745 5000 (Fax)

