

The **Certiport® Fusion Capstone Competition** gives you a chance to amplify your skills in support of your future career and an opportunity to share your designs with industry professionals from Certiport and Autodesk®, a global leader dedicated to transforming lives through innovative medical solutions that improve the health of patients around the world. Use Autodesk® Fusion 360™ to design submission/s to one of the following categories:

**Category One: Design a New Piece of Medical Equipment**



Example student submission, credit: Anne Pauley.

- Innovate and design a new piece of medical equipment you would find in a connected doctor's office. You may be very creative and invent a new type of equipment, or you may want to simplify the doctor's office and combine multiple pieces of equipment into one cohesive, ergonomic piece. Be creative, now is chance to design a piece of the future. Examples of medical equipment you'd find in a doctor's office are: scale, thermometer, computer on a stand, a device to measure blood pressure, blood oxygen percentage and pulse.

**Category Two: Aesthetically redesign an existing piece of medical equipment.**



- Aesthetically redesign a medical device which is used to read data from a patient's implanted device via a telemetry wand placed over the patient's device. Once the data is read, a clinician uses the device to send the data to a secure server which physicians have access to. The next generation of this device should be operated by the patient at their bedside or be conveniently moved around the home.
- Your challenge is to update the design so that blends into a contemporary bedroom or household. You may want to consider giving your version some added functionality, like a clock-radio, or a phone, so it not only blends into its surroundings it also replaces something you'd find in a normal home.

Simply create 3D models of your design concept and take into consideration aesthetics, comfort, portability, mobility and connectivity in a modern world. You can submit one design in each category.

Start by [downloading Autodesk® Fusion 360™](#), free access is available for students, educators, and schools.

Next, check out Autodesk [how-to videos](#), tips, and online resources to get racing in no time.

If you choose to redesign the existing piece of medical equipment Autodesk and Certiport has provided you with a Fusion 360 file to start with. [Get the Fusion 360 file here.](#) (this URL is public). You may also want to watch **these helpful YouTube videos** created by Autodesk for their [Design for Medical Innovation Challenge](#).

Video URL 1: [https://youtu.be/k-XqRjbaM\\_8](https://youtu.be/k-XqRjbaM_8)

Video URL 2: <https://youtu.be/eeDtvLN761w>

Video URL 3: <https://youtu.be/NS8CVN3HJxq>

Video URL 4: [https://youtu.be/6By\\_C3bhaVM](https://youtu.be/6By_C3bhaVM)

#### Technical Requirements:

1. Your model must be created **exclusively** using Autodesk® Fusion 360™. Submissions created in other software programs will not be accepted.
2. All individual components must be modeled by you. You cannot import existing CAD data into your design with the exception of the files provided by Autodesk and/or components from McMaster-Carr.\*
3. Model components must be combined and submitted as one .F3D or one .F3Z file.
4. Please see [tips for exporting files from Fusion 360](#).
5. You must be the sole owner of the project and all materials submitted to Autodesk. Projects sponsored or funded by third parties may not be used. No third party (including your school or project sponsors) should have any rights to materials you submit.
6. *\*Pre-built components such as nuts, bolts, and brackets may be [imported from McMaster-Carr](#).*

#### Key Dates:

1. The Certiport Fusion Capstone Challenge launches June 15th, 2017 (12:01pmPST)
2. Entry final deadline is December 31<sup>st</sup>, 2017 (11:59pmPST)
3. Winners will be announced on or around January 29th, 2017 (11:59pmPST)