

VOL 2.



# united3D



## united3D

We've been continuing to supply PPE to hospitals and healthcare workers throughout this week. Our volunteers have been working hard to create PPE using 3D printers, as well as sewing. We are also looking into helping schools by providing PPE to students as well as teachers, as school season is close (or already has begun, for some). Some of our volunteers have also reached out to local makerspaces; with their help, we would be able to extend our reach and supply more PPE to healthcare workers in need.



## OVERVIEW:

- [united3D](#)
- [3D Printing](#)
- [COVID-19 Updates](#)

Writers: [Sejal Kaushik](#), [Charlie Miller](#), & [Fahitza D. Qessa](#)  
Editor: [Sanath Saji](#)



## 3D Printing

Despite the circumstances that we are all in, there have been many people who have still achieved great success and done many wonderful things in the 3D printing community. One such example of a bright spot in the 3D community is Honeywell. This technology and manufacturing corporation is widely recognized as one of the most successful and influential technology companies in the world. They have received a lot of recognition from organizations such as Fortune Magazine, who recently ranked them on their 2019 list of "World's Most Admired Companies". On the list, Honeywell ranked 1st in the entire electronics industry for their "use of corporate assets, social responsibility, quality of management, financial soundness and long-term investment". Respectively, they ranked 2nd in the electronics industry for their "innovation, people management, quality of products/services and global competitiveness." Many of you may be wondering why Honeywell has gotten all of this attention and recognition. Well, one of their recent developments in the aeronautics field can help show why they deserve to be ranked among the top tier of electronic industries.

As of this past Thursday August 19, Honeywell announced their "successful certification of its first 3D printed flight-critical engine part". This engine part that they are referring to is a #4/5 bearing housing, which is an engine part that was originally used in the French Navy patrol aircraft for patrol as well as search-and-rescue missions. Usually, a part like this would be made by using mould making and by using various casting techniques, but to make it less expensive they decided to use "additive manufacturing" in order to produce these parts efficiently and in small quantities. Although Honeywell stated that this component is not in wide usage as of right now, they have claimed that production for this engine part has started and they expect that there will be "dozens... produced by the end of this year". According to the employees at Honeywell, this piece of equipment will drastically improve "supply chain shortages for complex engine parts." All in all, this step forward by Honeywell proves their brilliant innovation, and it would not come as a surprise if we were to see them atop the rankings in the 2020 version of Fortune Magazine's most admired companies.

## COVID-19 Updates

The COVID-19 pandemic has become a phenomenon that pushes the limits of the medical industry, trespassing the physical and mental resources of medicine. Advancements in research and the refinement of medical practices have become increasingly vital and important. An example of this is the FDA's recent approval of convalescent plasma as an emergency treatment for COVID-19 patients who have or are recovering from the virus. Convalescent plasma is the utilization of antibodies in certain parts of the blood that are developed to fight infections. This use is largely effective because it has increased the survival rate for Covid-19 by 35%, treating patients under 80 the most. This treatment's approval garners hope for patients who remain in medical treatment centers fighting this virus, along with their families.



Join our community of volunteers at  
[united3d.org](https://united3d.org)