

## TRACCE PROVA ORALE

- Qual è la principale differenza fra un sistema "hardware open source" di tipo Arduino rispetto a quello di tipo RaspberryPi?
- Il/la candidato/a descriva brevemente il meccanismo di funzionamento di una stampante 3D FDM
- Idoneità Lingua Inglese: Il/la candidato/a traduca il seguente brano:

“Exploring the significant applications of Internet of Things (IoT) with 3D printing using advanced materials in medical field”

Three-dimensional (3D) printing, a part of additive manufacturing (AM) process, allows manufacturing processes to produce intricate structures directly by the use of computer-aided design (CAD) models with high precision and better visibility since 3D figure allows us to analyze the model better. Successive layers of various materials are combined to form a 3D model. Developed in the 1980 by Charles Hull, this technique has great potential for revolutionizing various fields due to various industries' applications. 3D printing permits the manufacture of customized parts from various materials without using conventional machines required for subtractive manufacturing. Due to increased development in AM technologies, the user base of this process is becoming increasingly large. [...]

- Idoneità Informatica: il/la candidato/a faccia un esempio di un programma per sviluppare simulazioni in un campo di sua conoscenza