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HEPIA MICROENGINEERING STUDENT, 1ST YEAR

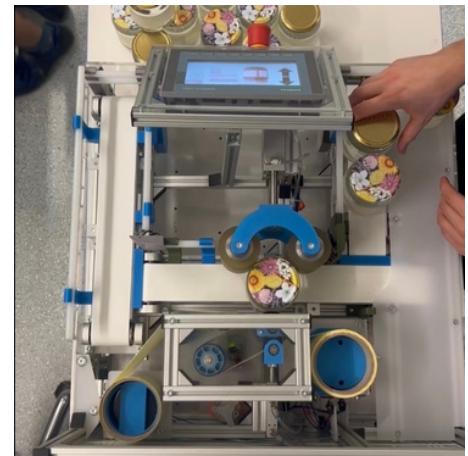
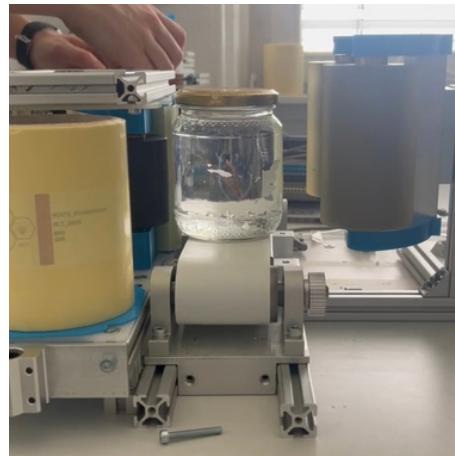


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JAR LABELLER



What ?

- Design and manufacture of a machine for labelling series of jars
- Designed for the majority of jars on the market
- Variable label height

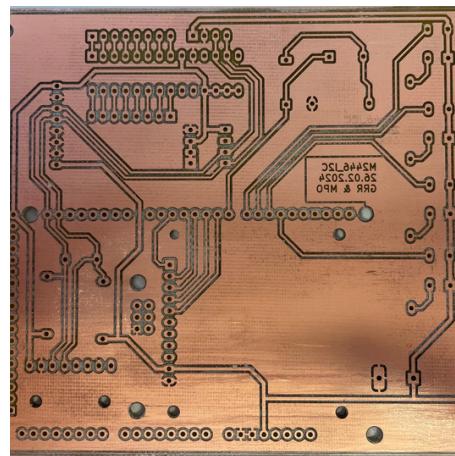
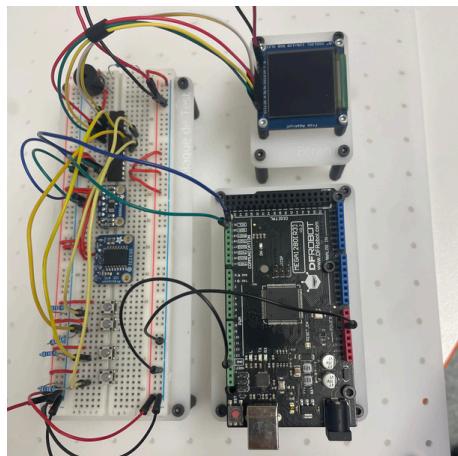
How ?

- Design using Autodesk Inventor
- Mechanically synchronised pot rotation and label peel-off system
- Height adjustment based on the concept of 3D printers

Results

- Specifications met with a throughput of 14 pots per minute and 99% reliability

EASI2C



What ?

- Design and manufacture of a circuit for easy integration of I2C communication modules

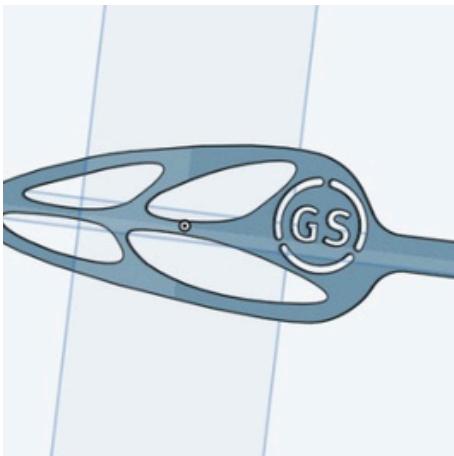
How ?

- Code written in C++ with an Arduino Uno
- PCB designed on KiCad and machined in-house

Results

- In addition to the standard functions of the circuit, it is possible to integrate 4 additional components simply by connecting them

GS3D FACTORY



What ?

- Co-creating a business
- Design and manufacture of mask fasteners for professionals and individuals

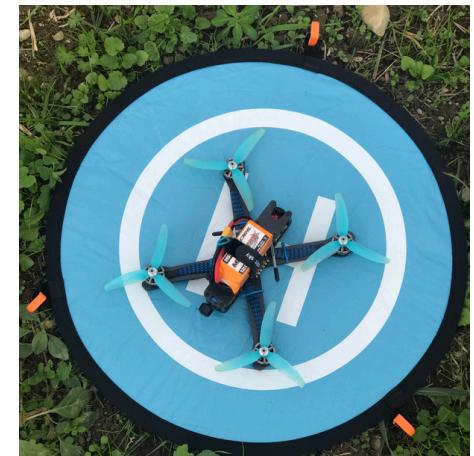
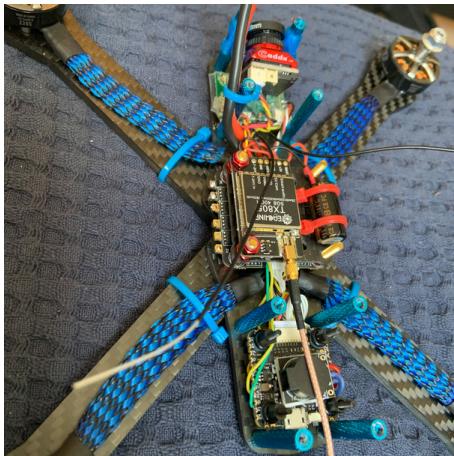
How ?

- Design on OnShape
- Cooperation with healthcare professionals for prototyping
- Optimisation of production time, printer settings and post-processing

Results

- More than 1000 fasteners sold
- Customers mainly from the medical sector
- Discover the different sectors of a company

CHOUCA - FPV DRONE



What ?

- Assembling and programming an FPV drone
- Choice of components to design a kinematics drone

How ?

- Optimised positioning of components for good cooling and to avoid interference
- Programming and telemetry on BetaFlight

Results

- Operational drone
- 1 km range for free video shots
- Maximum speed of over 100 km per hour