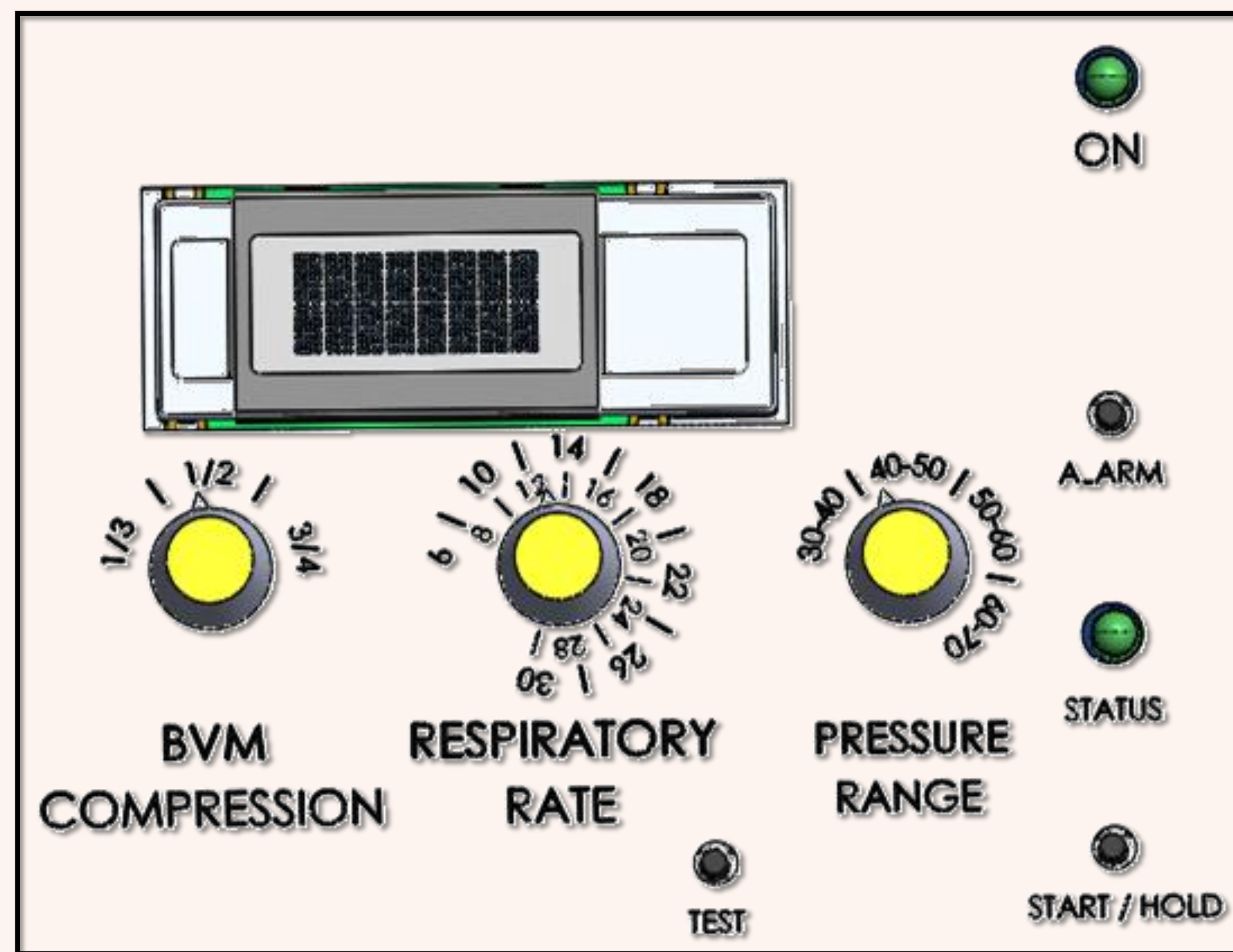


Specifications

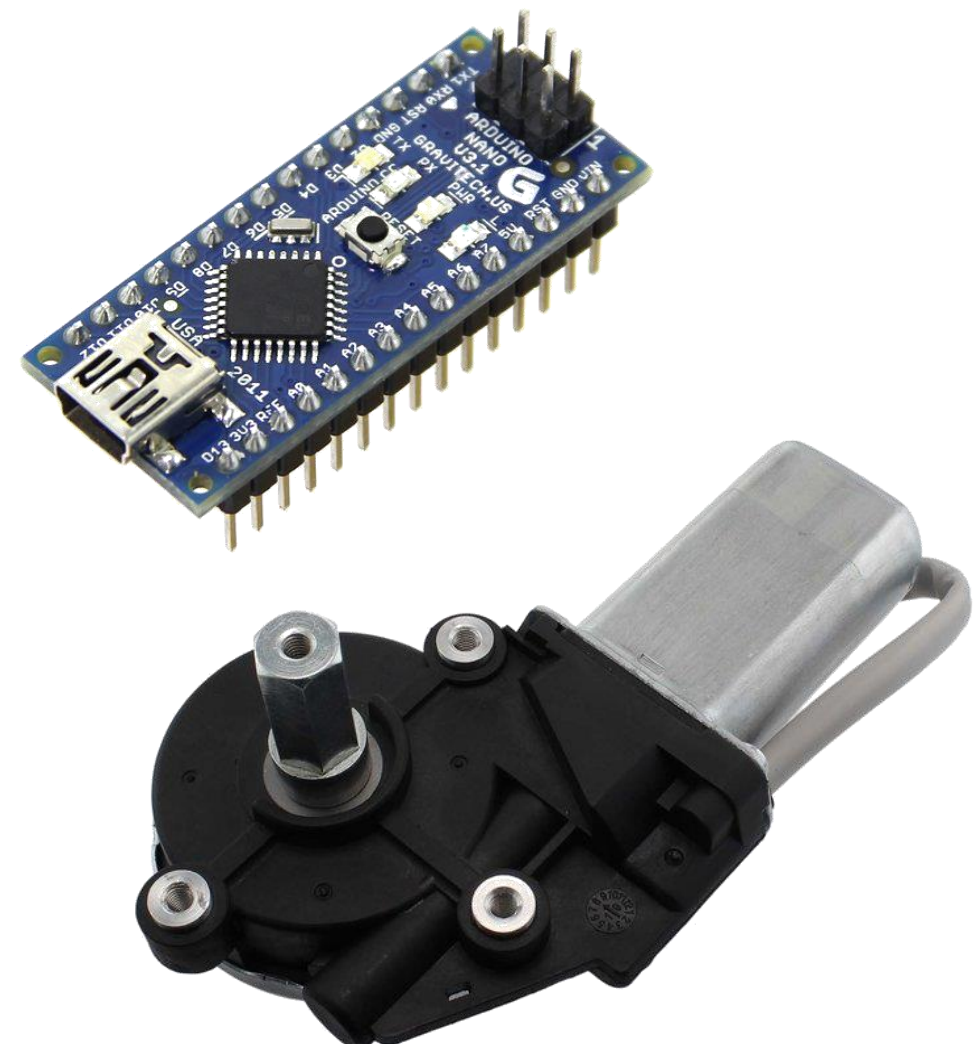
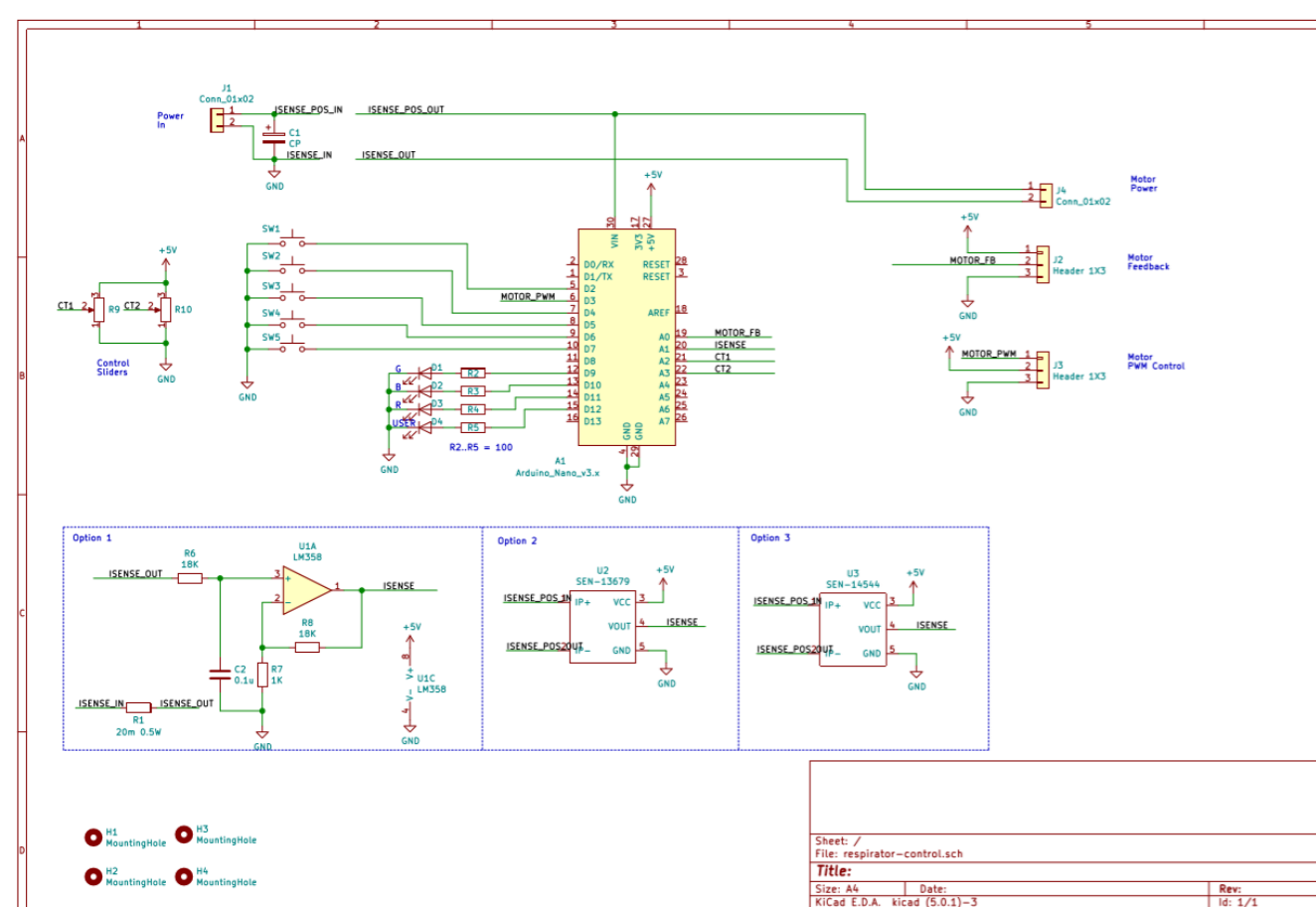
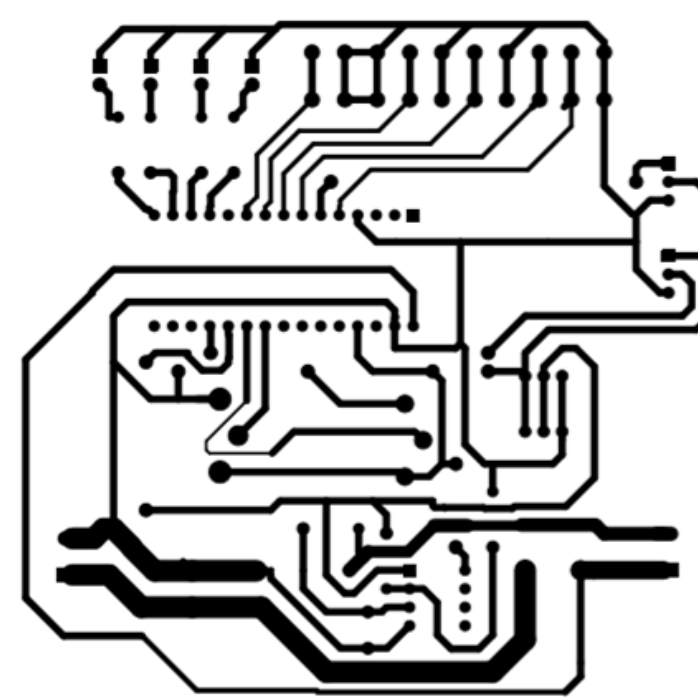
- Volume control ventilation (VCV) machine
- Wide options of tidal volume selection, ranging from 30% to 100% of full squeezing capacity.
- 11 ventilation rates ranging from 6 to 24 cycles per minute
- Wide options of not-to-exceed inspirium peak pressure, between 30-70 cmH2O
- Electrical Source 110/220V
- Batteries Backup (2 hours duration)
- Visual and Vocal Alerts: Batt. On | Low Batt | Hose disc. | Vent. rate fail. | Extreme Pressure
- Ventilation pressure continuous monitoring
- IOT-based system, to monitor multiple patients

UI-UX Specifications



Off the Shelf Components

- [Hex Shaft Snowblower motors](#)
- [Spark mini Motor Controller](#)
- [ArduinoNano](#)
- [SparkFun Pressure Sensor](#)



Emergency ventilation initiative coming out of Israel

Who is behind it?

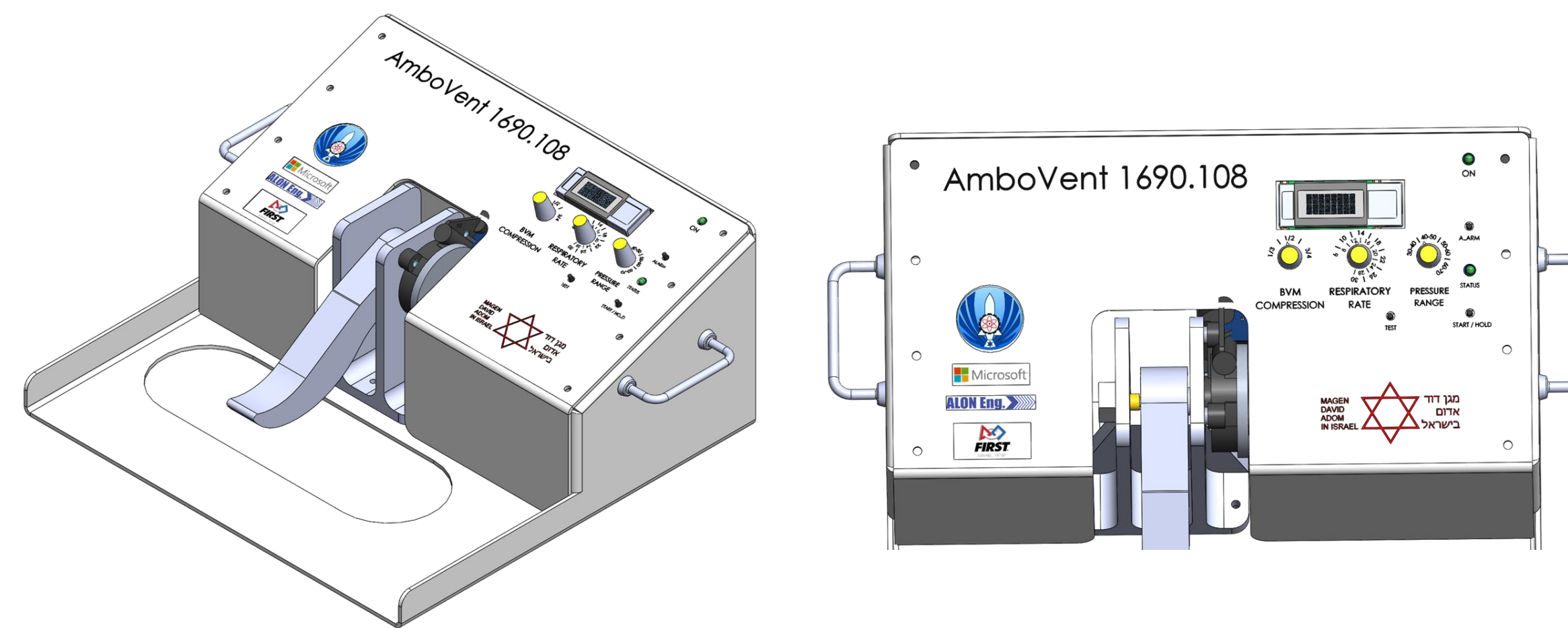
Lead by the [CTO & innovation leader](#) of the Israeli Air-Force 108 Electronic Depot and backed by a large community of innovators behind him

To include:

40 Professional Volunteers - [MDA](#), Physicians from leading Israeli hospitals such as [Tel Aviv Sourasky](#) and [Hadassah JLM](#) as well as other medical centers, Engineers, [First robotics](#) mentors and students, The [Haifa Technological Center Rafael](#) and [IAI industries](#), IAF Unit 108, [The garage program by Microsoft Israel](#) and others..

AmboVent 1690.108

Automatic, Controlled Resuscitator Device

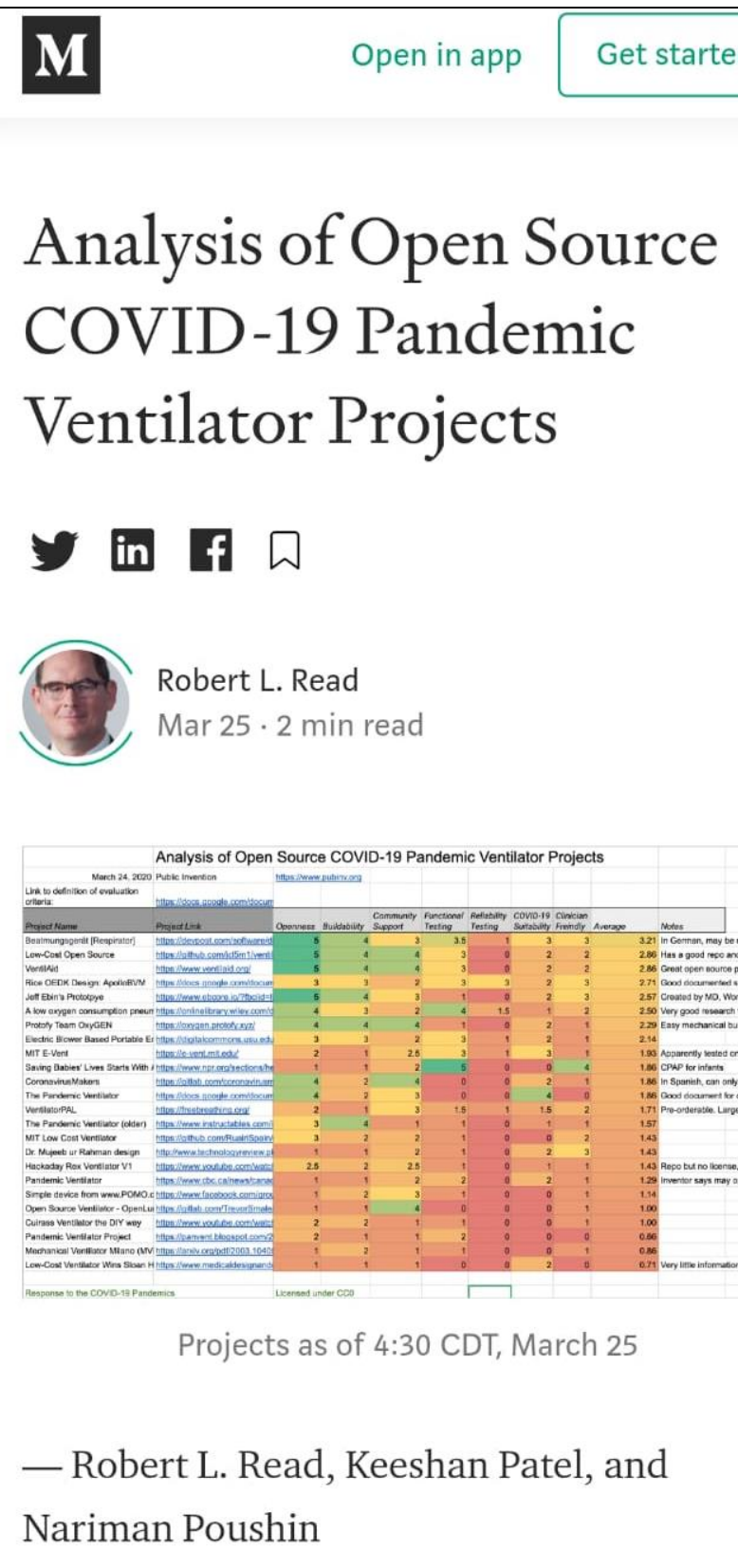
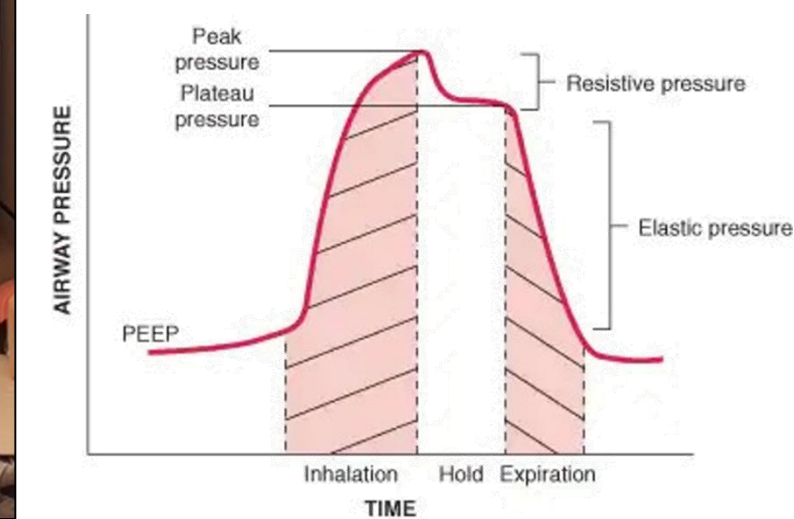
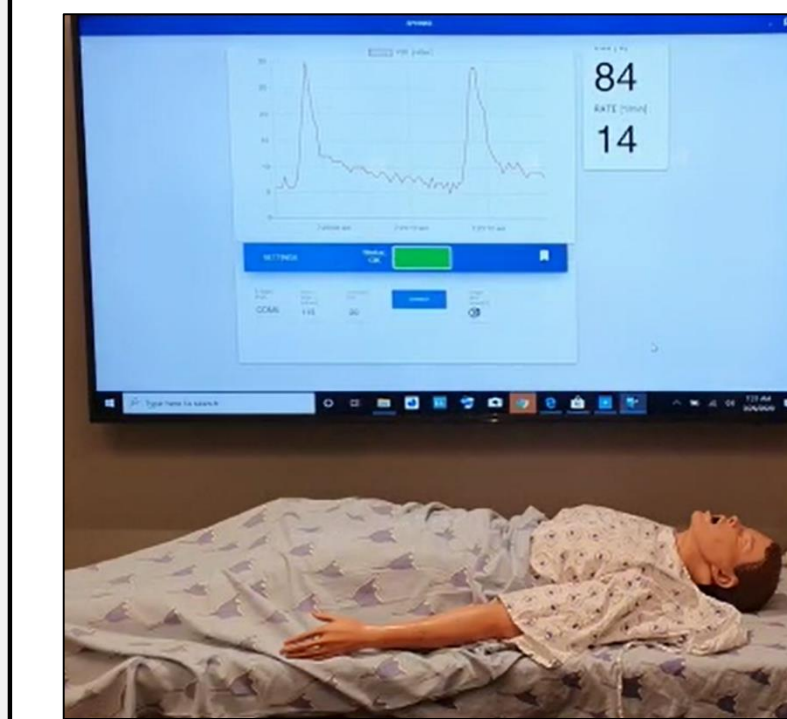
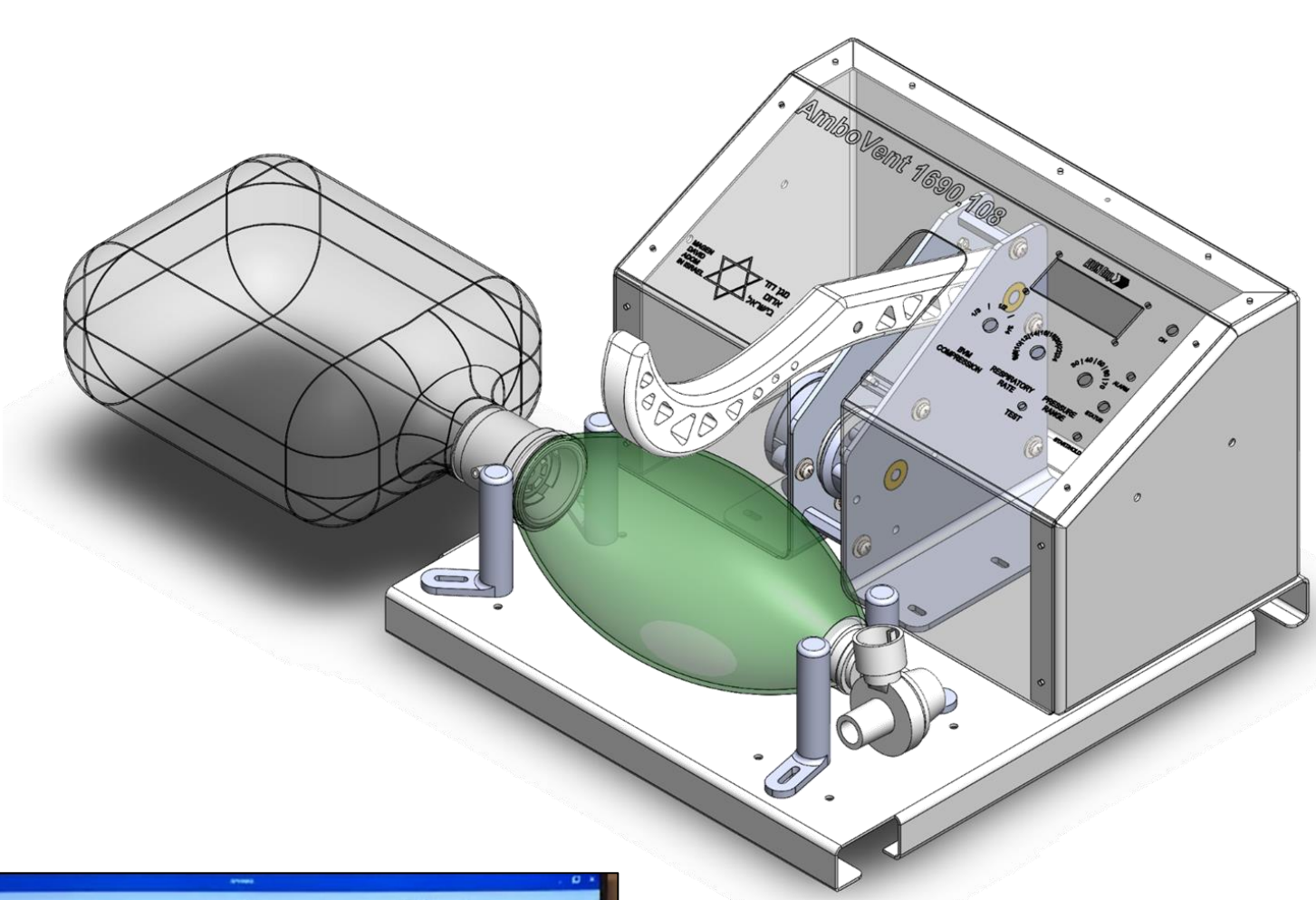
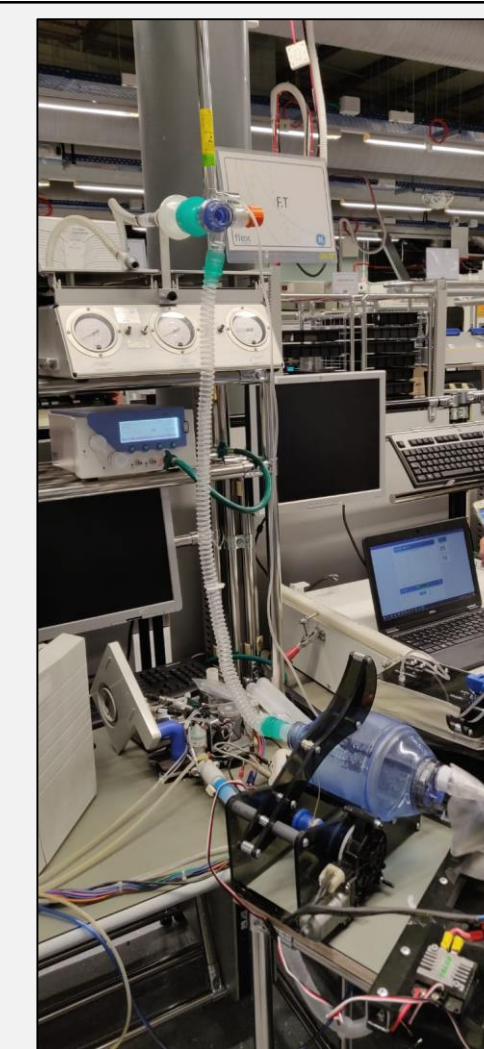


Emergency ventilation alternative system

Global Partnership for the Greater good
Leading Open Source Code Mentality Initiative

Validation and Tests

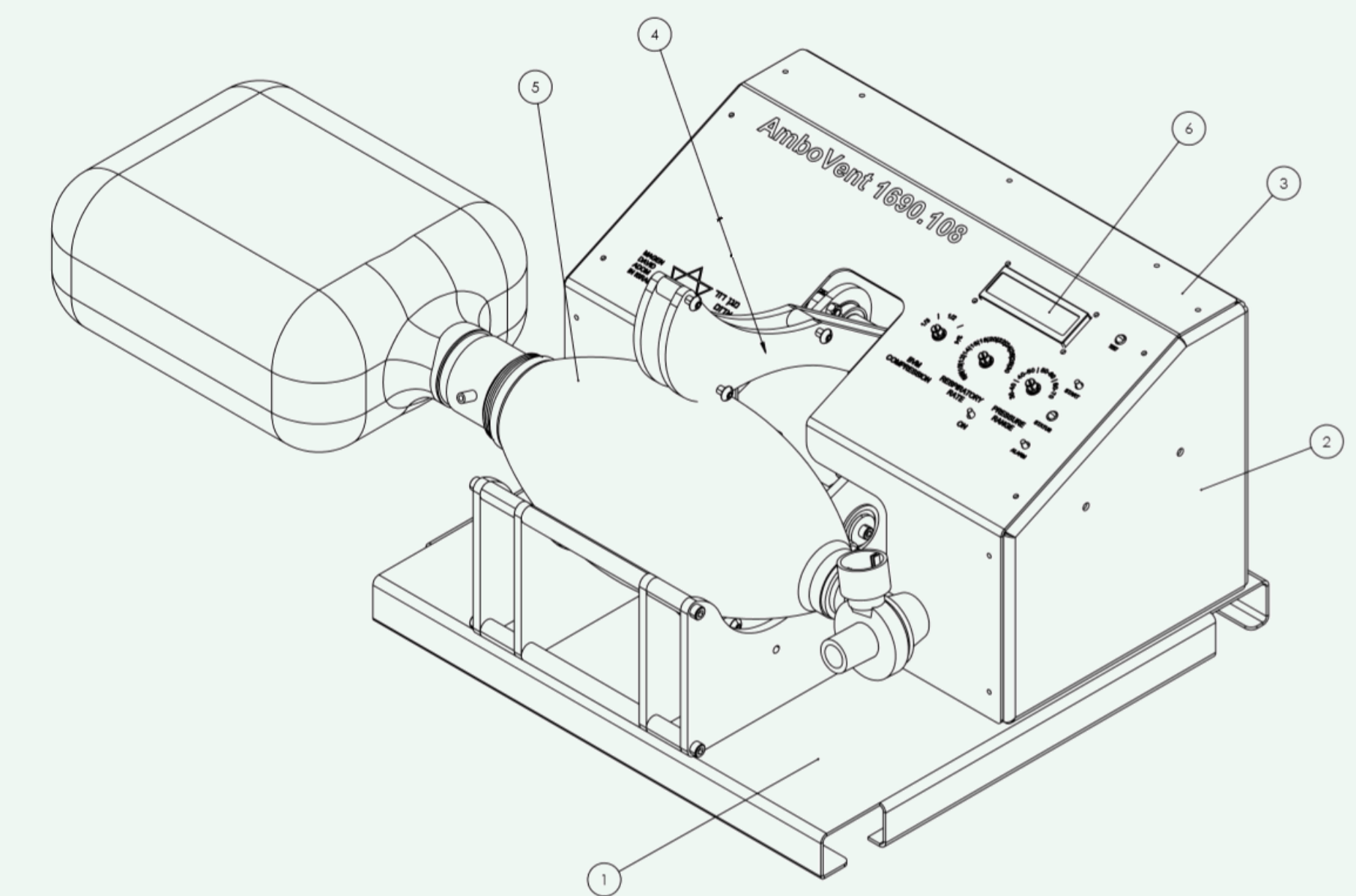
- Supports [Rapidly Manufactured Ventilator System](#) specifications
- Evaluated in [Tel Aviv Sourasky](#) hosp.
- Tested in [Flex](#) labs
- Calibrated in [Rambam](#) hospital



Rated by [Robert Lee Reed](#) as the leading solution in this category, among 40 other initiatives

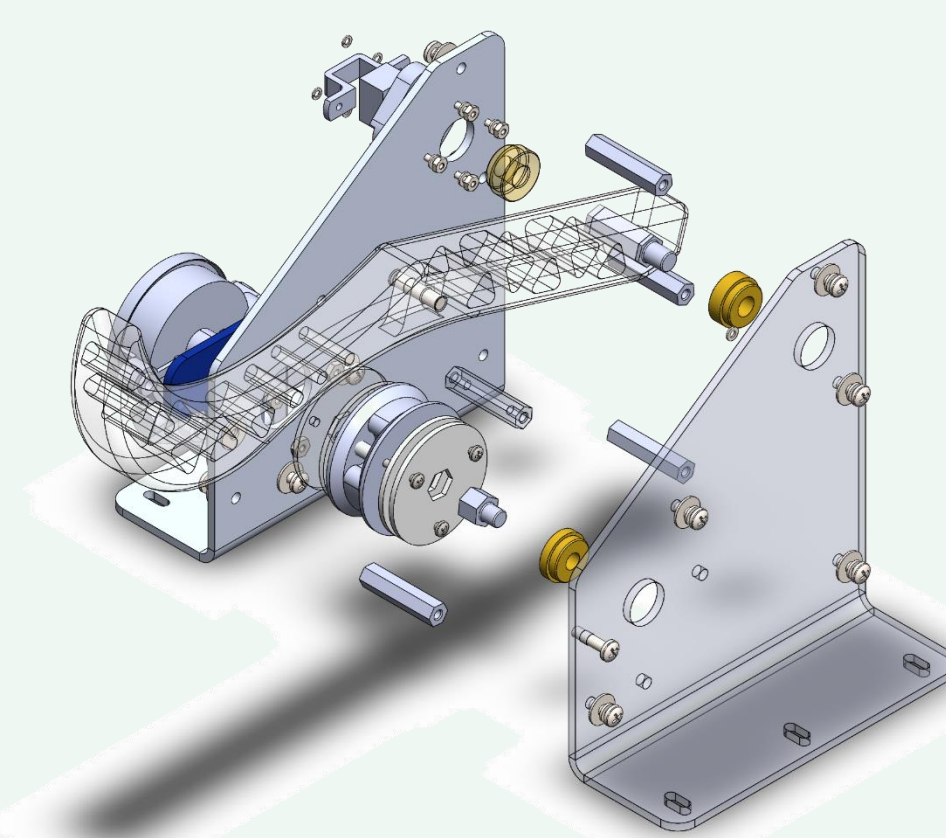
Documentation

- Files are available in an ANSI-metric standard
- Mechanical model design source-code files are provided in a Parasolid format (.X_T)



Getting Ready for Production

- Materials: Aluminum, Akulon-nylon6
- Metallic painting capacities
- FDM based 3D printing machines
- Factory assembling capabilities
- CNC, Punch, Bend manufacturing Capabilities
- Printing on Lexan



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