

WHAT'S UP AT STRUT?

ISSUE 08 • AUGUST 2020



STRUT

A newsletter to keep you updated on the growth of STRUT, detailing company news and developments, industry events and educational content.

STRUT COMPANY
NEWSLETTER

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BEHIND THE SCENES

An exclusive look at our development and prototyping facility

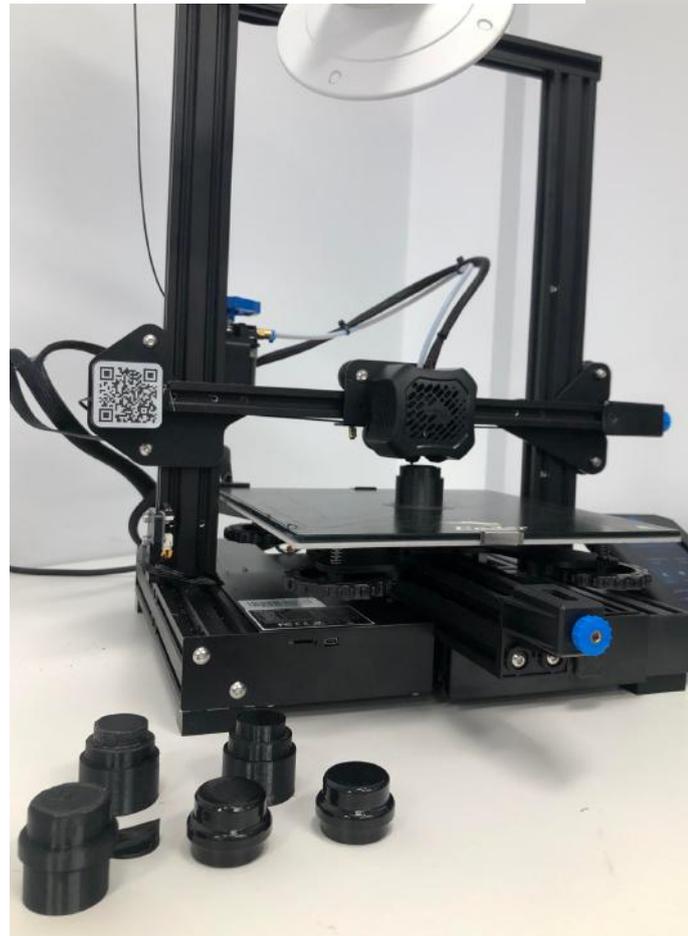
Based in 'The Chamber' and Deakin University's state-of-the-art ManuFutures building, we have access to some cutting edge tools, enabling us to develop and prototype solutions rapidly.

3D Printing

We share our office space with [polylab](http://polylab.org), a startup focused on sustainable 3D printing solutions. This means that we are fortunate enough to have some real additive manufacturing expertise at our fingertips when we need it. We have accumulated a few different 3D printers over the years, with our newest addition the 'Creality Ender 3 V2' joining us this week!

3D printing allows us to rapidly prototype mechanical designs, test new ideas and create innovative solutions for our customers.

For more information on 3D printing, check out [polylabs website](http://polylabs.org) - polylab.org



Data Processing and Analysis

The real value of the STRUT system comes from the data that we collect, but huge datasets by themselves don't provide much value on their own. During our 'on-farm trial program', our sensors generated over 1 Million individual data points!

Our sensor's collect data from soil and air conditions and when installed on a farm or in a garden, that data can be used to paint a picture of the conditions and allows our customers to make 'data-driven' decisions.

Our Online Dashboard takes the data from each sensor in real-time, processes it and presents it to our customers in an easy to interpret format. Reports can be automatically generated and we can even send you a text message, letting you know that you can turn the tap off in your garden because your plants have enough water!

Data can be exported from our Online Dashboard in common file formats, opening up even more possibilities for data analysis.



CHARLIE DEVELOPMENT

How has the development of Charlie progressed?

Charlie has come a long way since you last heard from us. With the help of the incredible team supporting the Deakin VentureWorks program, Charlie is starting to look like a market-ready product!

The COVID-19 pandemic has introduced some interesting challenges for us during this development period, but we are still confident that we will meet our deadline for the development, due to complete at the end of September.

Once we have an initial prototype batch of Charlie's in our hands, we will be putting them through their paces with some rigorous testing, before releasing our new flagship device commercially!



FULL OF FEATURES

Charlie has a lot to offer when it comes to features, to achieve this we've made some significant improvements on our old 'Beta' prototypes:

SIZE DOES MATTER

The Communications Module, or 'brains' of Charlie, are a whopping 93% smaller than that of Beta! Reducing size has not meant any compromise on performance, in fact, Charlie will be more power efficient and boast better wireless performance as a result.

ALL NEW SOIL SENSOR

We have developed a cutting-edge variable frequency capacitance sensor, enabling more accurate and reliable VWC% measurements for Charlie.

BUILT TO LAST

Charlie is packaged in a single, stand alone probe that is robust, easy to install and maintenance free. Truly built to survive on Australian farms.