



WELCOME TO
FermionX

MANUFACTURING

ABOUT US

Our 50 years' experience ranges from PCBA and sub assemblies, to fully integrated box build, test and shipping fulfilment.

We bring together a wealth of skills for the world of product manufacturing, supporting our partners with their production growth ambitions.



MEET THE TEAM



Gary Rice

As Technical Sales Manager, my role is to assist you with all of your technical onboarding requirements



Scott Jones

My role as Business Development Manager is to liaise directly with you regarding all aspects of your journey with us

NEW FOR 2024

In order to further enhance our capabilities and production growth for our customers, we are proud to announce that we are now **ISO 13485** certified.

By updating our premises as well as our software systems, our certification assures you of the highest quality standards. Reducing product risks, improving traceability and ensuring safe and effective products that can be relied on in critical environments.



01. **OPTIMISING YOUR PRODUCTION**
We can provide the manufacturing support needed to help grow your production

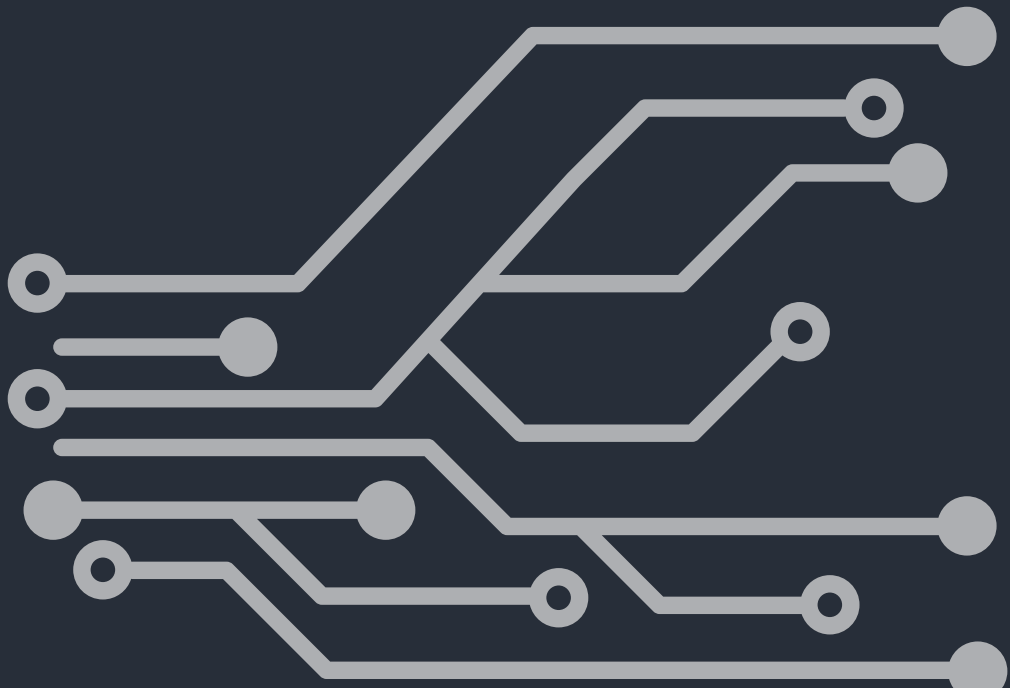
02. **DELIVERING QUALITY**
We are committed to the highest standards of system and process controls

03. **WORKING WITH YOU**
Our open communication with customers ensures that your journey with us is built to last

04. **NEXT STEPS**
What's next? Where to find any additional information and who to contact.

01.

OPTIMISING YOUR PRODUCTION



PCB ASSEMBLY

FermionX has an extensive PCB assembly service capability which allows us to successfully support from basic to the most complex circuit design, tailored to suit your requirements.

- Surface mount assembly
- Conventional PCB assembly
- Sub-assemblies
- Quality control
- Full inspection and test



BOX BUILD ASSEMBLY

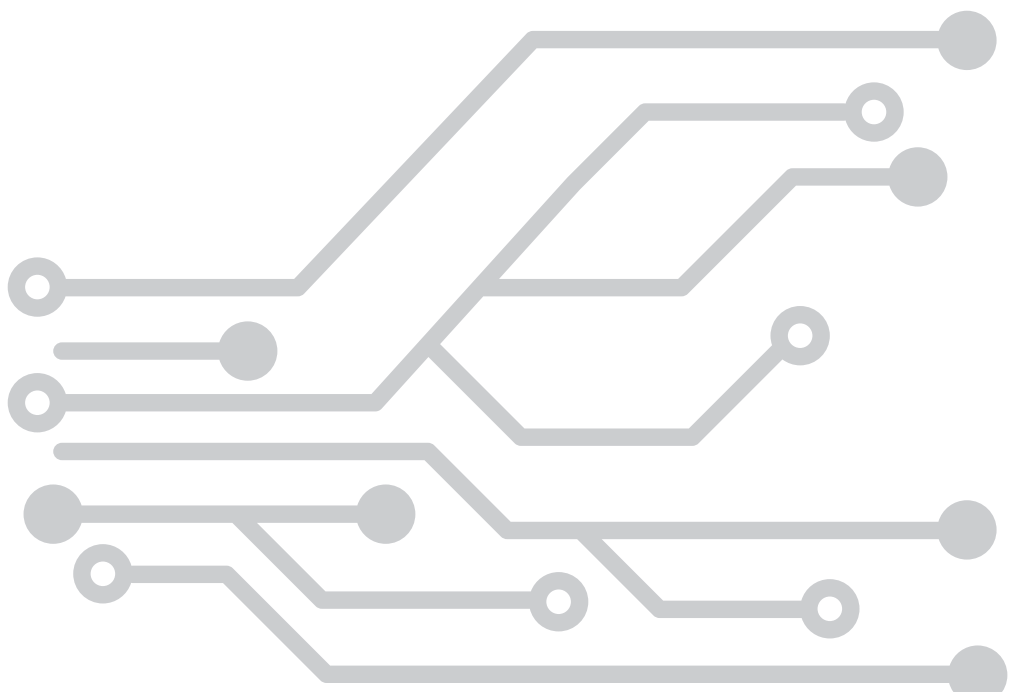
Our box build service provides bespoke solutions to fit your needs. From simple PCB and cable-fitted sub-assemblies, to integrated enclosures with electromechanical assembly.

- Review of all documentation
- Testing/programming specifications
- Traceability requirements
- We can also support on product branding and packaging to fit global distribution requirements



INDUSTRIES

No matter what industry you operate in, our extensive experience and state-of-the-art facilities can support your production.



AUTOMOTIVE



MEDICAL



AVIATION



OIL AND GAS



LIGHTING



MARINE



AUDIO



DETECTION



MILITARY



PLANT LIST

SURFACE MOUNT - 3 LINES:

- Speed Print SZ-Z10AVI
- DEX Horizon - 03ix
- 4 x I-Pulse (3 I-Pulse M20, 1 x I-Pulse M10)
- IBL Vapour Phase
- 2 x lenne Plus 14
- Interflux Solder Paste Conditioner
- Memmert Oven

CONFORMAL COATING:

- PVA2000 Selective Coating System
- Hand-held DCA200H in a clean extracted booth

CONVENTIONAL:

- Ecoselect-1 selective soldering system
- Robottas Mascott
- Component Pre-Forming
- Cropmatic
- Easy cut nibbler
- Easy cut Depaneller
- Metcal MX5200
- Metcal handheld convention tool
- Metcal Bvx-200 Fume extraction
- Wave Solder

INSPECTION:

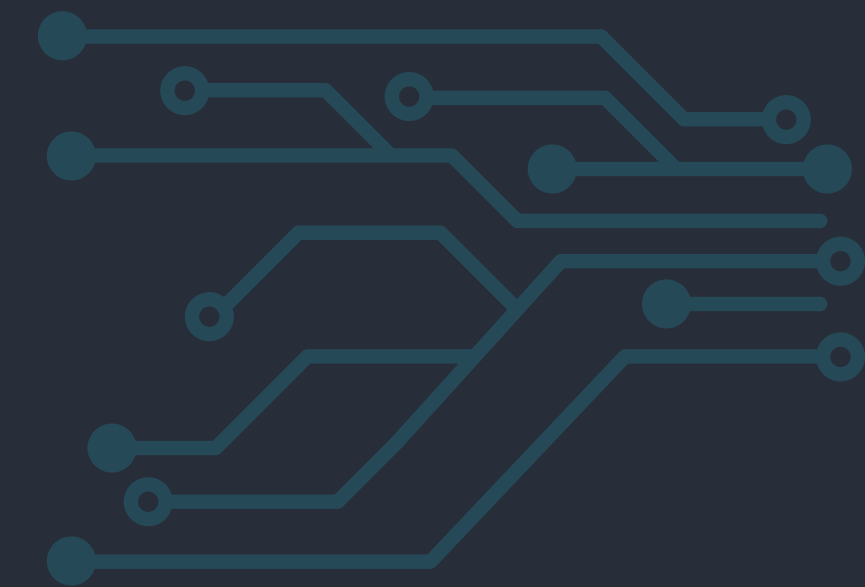
- 4 x Mantis Elites
- ERSASCOPE M&M Plus
- AOI FX-940
- 2 x Inspex HD 1080p Cameras
- Nordson Dage Quadra 3 x-ray with x-plane

MISC:

- BGA Rework station
- MARTIN mini oven O5
- X-Treme Dry Cabinets
- System 2000 Aqueous PCB cleaning machine
- Markforged Onyx Pro 3D Printer
- Super SWASH III Twingo



AUTOMOTIVE INDUSTRY CASE STUDY



01. THE COMPANY

Our customer manufactures innovative engineering solutions to the automotive, heavy vehicle and electronics industries. They specialise in instrumentation and engine data logging devices for engineers.

02. OUR SOLUTION

Our reliability and consistency in delivering every week means that our customer can send their products out to customers in a timely manner. They appreciate our ability to manufacture end products to a high standard, continually providing first-class aftercare.

03. THE JOB

After some issues with previous suppliers, they were looking for a new supplier who had the capability to anticipate their needs. Once they sampled FermionX in 2012, they were pleased with the result. Their product requirements involved SMT, conventional PCB assembly and X-ray inspection.

04. OUTCOME

FermionX have now built 1791 PCBs in 2022, and 182 so far in 2023. Roughly 20 different products have been made to date. Our team's capacity to not only take control, but provide proactive communication is a pivotal reason to why the relationship has lasted for 11 years.

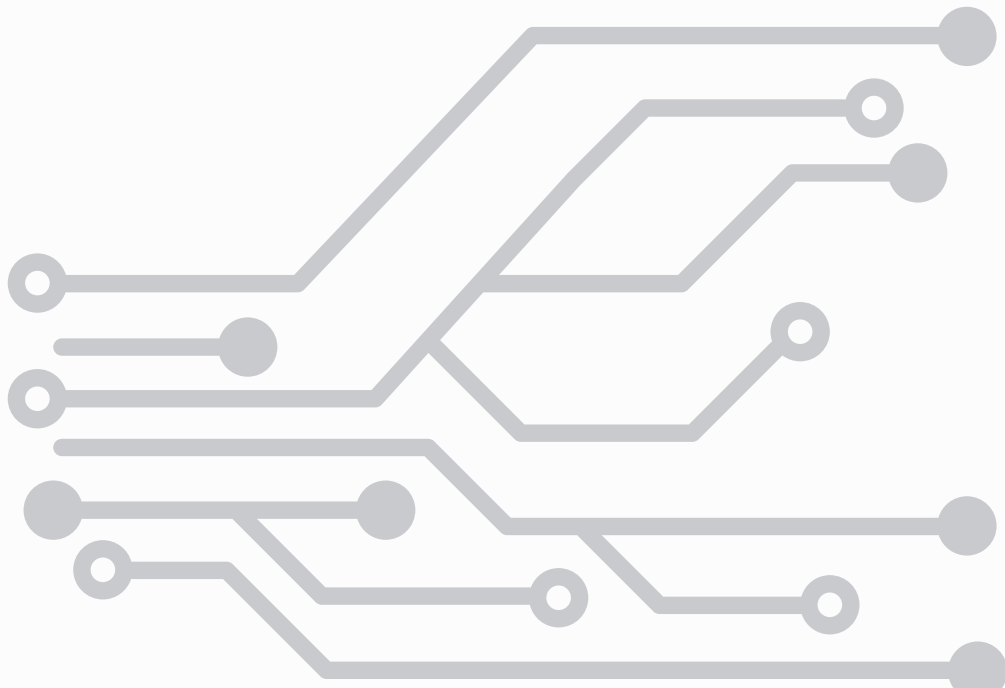




**"FERMIONX ARE ALWAYS STRIVING TO
COMPLETE ORDERS ON A TIGHT SCHEDULE
WHEN WE HAVE LAST MINUTE REQUIREMENTS."**

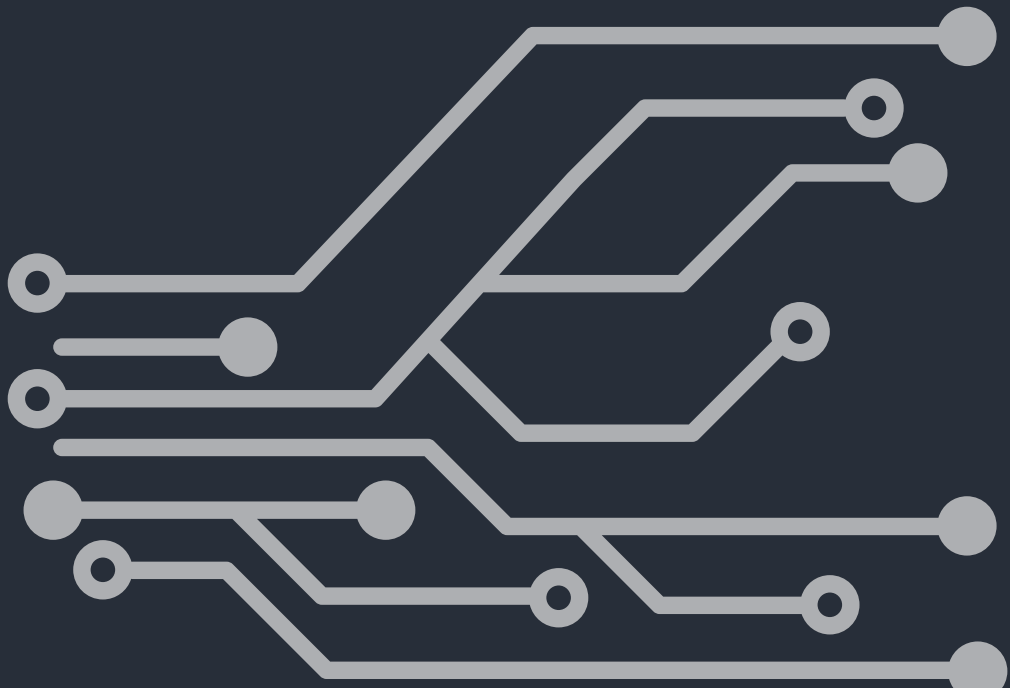
**"THEIR SERVICE IS EXCEPTIONAL. IF WE HAVE
AN ISSUE THEY ARE HAPPY TO HELP US, ABOVE
AND BEYOND."**

**Automotive Industry Partner
UK Manager**



02.

DELIVERING QUALITY



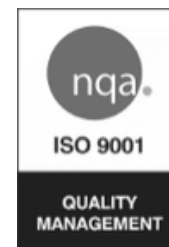
MAINTAINING HIGH STANDARDS

We work proactively to identify, mitigate and resolve any risks to your production.

FermionX holds **ISO 13485**, **ISO 9001** and **IPC-A-610, J-STD-001** certification.

We also operate to the requirements of ISO 14001 for environmental management systems.

We have a rigorous culture of quality control through our process control systems and supplier partnerships.



TRACEABILITY AND PLANNING

In order to achieve **ISO 13485** certification and improve our overall quality processes and traceability, we've invested in a new ERP/MRP system. This plans out production timelines and provides you with transparency in sourcing components and their origins.



ENHANCED PRODUCT PROTECTION

We've also implemented stringent EPA protocols, including access control testing. ESD protection equipment and lab coats have been provided to all production staff. Air conditioning has been implemented to ensure that our factories are fully climate controlled.



TRAINING

We have an internal IPC-A-610 and J-STD certified trainer for continuous training for our production staff.

We also offer ongoing training support for all of our team the chance to upskill or retrain in new areas and support career development.

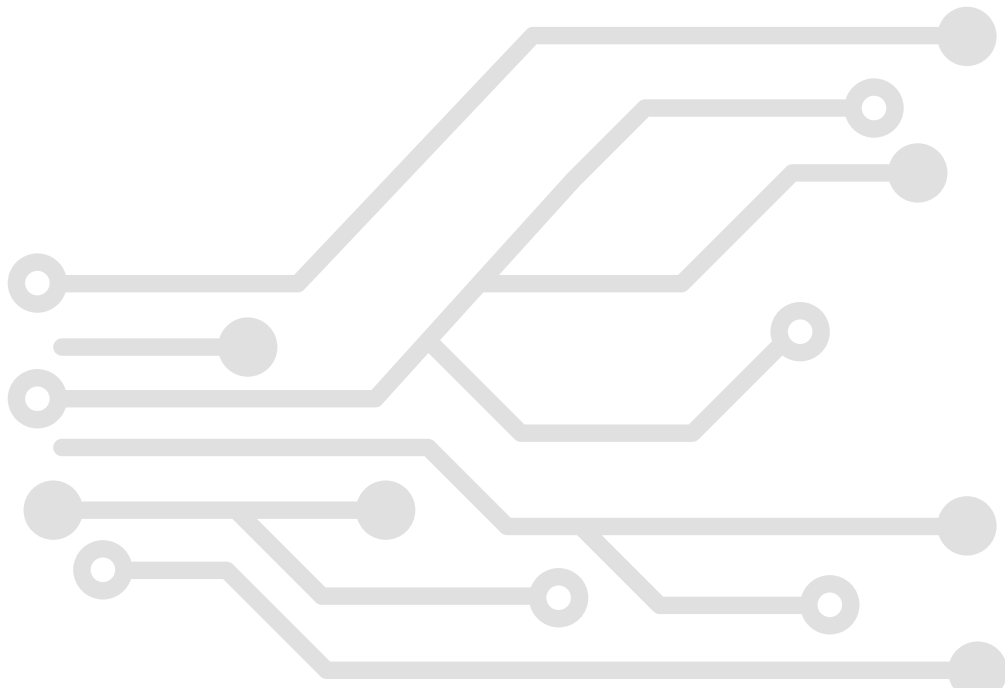
SUPPLY CHAIN

Our supply chain management experience and network of trusted suppliers ensures you receive technical advice as well as reliable products.

At FermionX we offer sourcing support when components become obsolete. If an end-of-life notice has an impact on your product(s) our team proactively source and provide you with a minimum of 1 alternative.

CLEAR COMMUNICATION

We can track the status of your production from start to finish, providing you with real-time updates. As you will always be in the loop, you can trust that your production is on track.



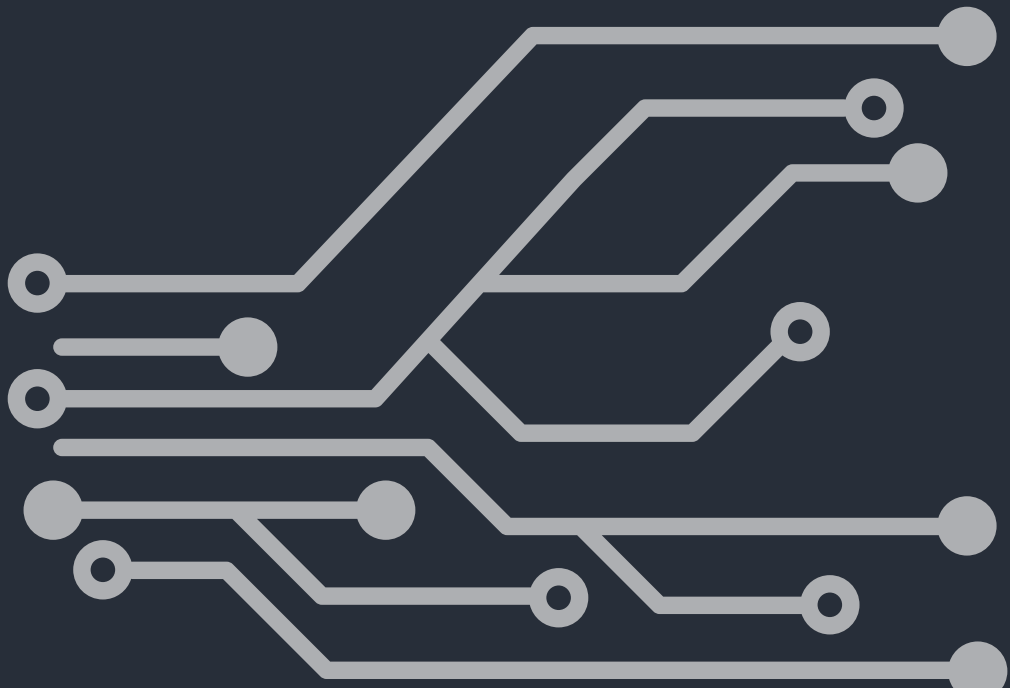
INCREASED CONFIDENCE

Rest assured that you're working with a CEM that is dedicated towards continuous improvement and delivering high-quality products. By leaving the manufacturing expertise in our hands, customers can focus on their core competencies.



03.

WORKING WITH YOU



OUR PROCESSES

Our transparent and open communication ensures that your journey from idea to finished product with us is streamlined with full control of your product.

We work proactively to identify and diminish risks to your production and supply chains, guaranteeing consistent outstanding product support.



1

Request for quote

Your specification requirements and documentation will be set up on the system to be reviewed.

2

Process Control Review

Data and documentation are reviewed to ensure completion and confirm the project's fit for manufacture.

3

Supply chain management, costing and agreement

The cost and lead time of the job will be estimated via our network of trusted suppliers and quote sent for customer approval.

4

Engineering and process control

Our Engineering Team will fully review the job to be signed off. After sign off, tooling and stencils will be ordered and production/ inspection packs released.

5

Production

Once stores have received and kitted the components the job is programmed into the relevant machines and production will start.

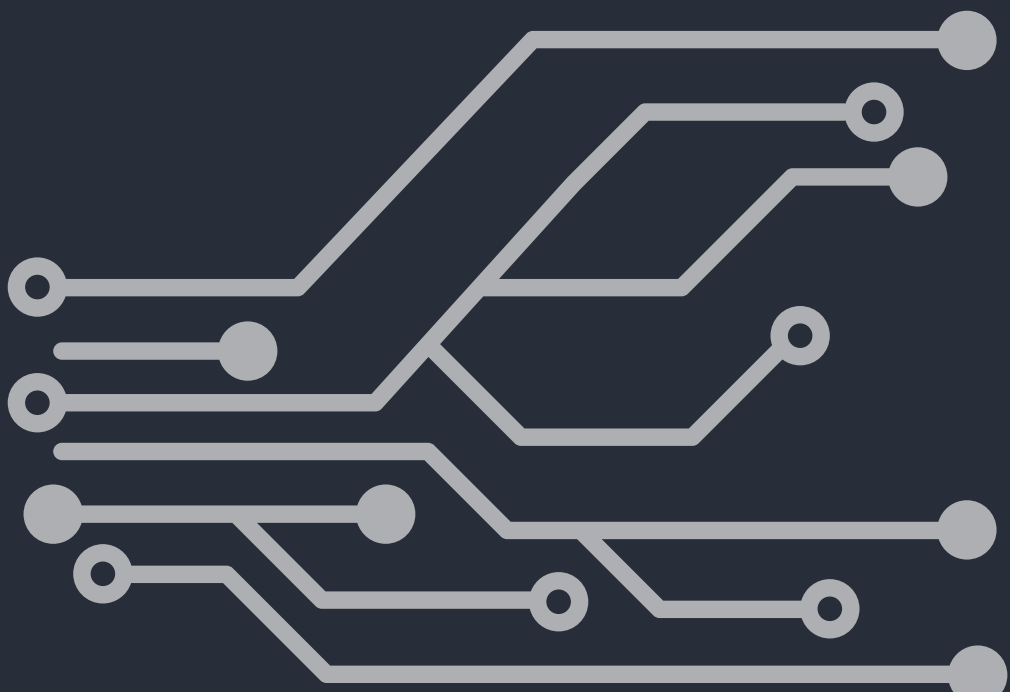
6

Final product and shipping

Once the product has been approved it will make its way to the dispatch team who will arrange for delivery via our chosen network of trusted logistic partners / suppliers.

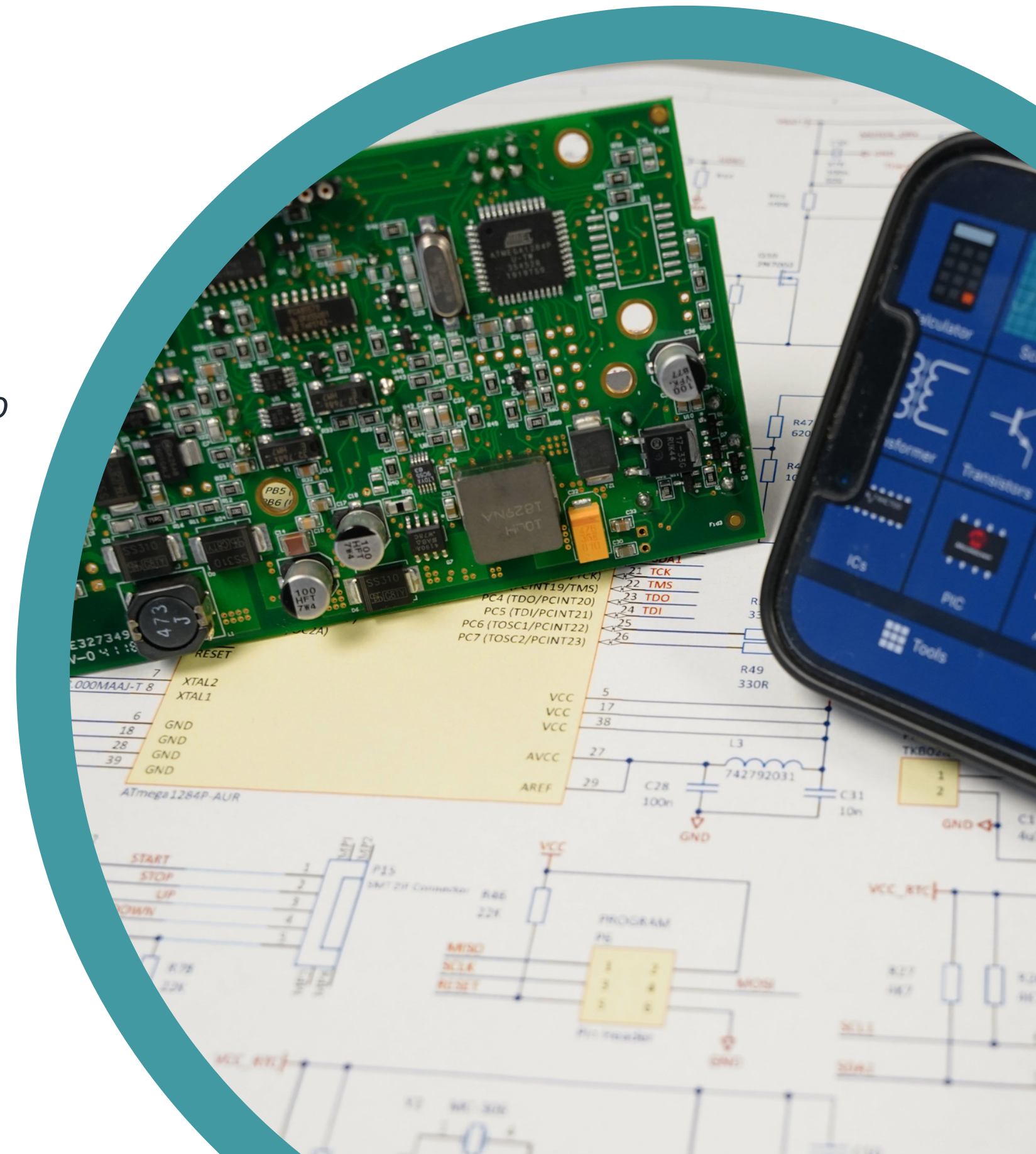
04.

**WHAT ARE THE
NEXT STEPS?**



Next steps

- 01. ARRANGE A MEETING**
We can catch up via teams - or if you'd prefer to meet in person, we'd be happy to welcome you here (with a light lunch) or come and visit you.
- 02. SHARE TECHNICAL SPECS**
If you require an NDA, please feel free to send yours or we can share our standard agreement. Send over any technical queries or documentation that you would like reviewed by our team
- 03. GET IN TOUCH**
We're happy to help and are on hand to support you with any questions you have.





THANK YOU