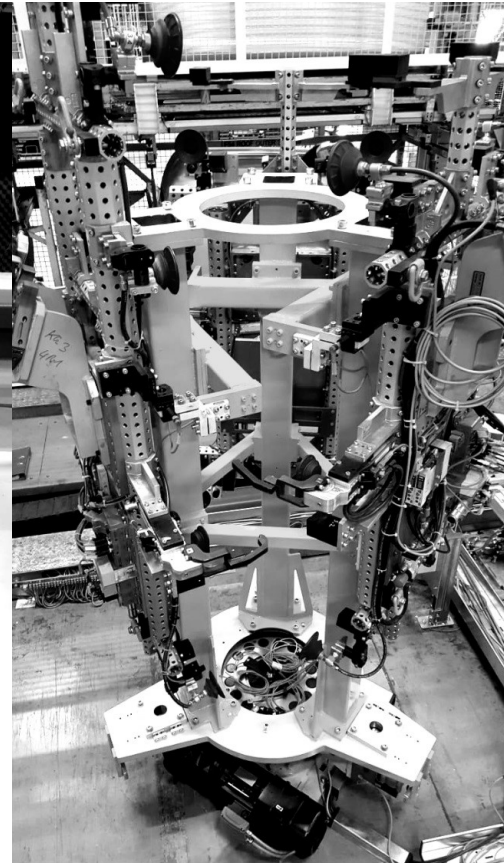
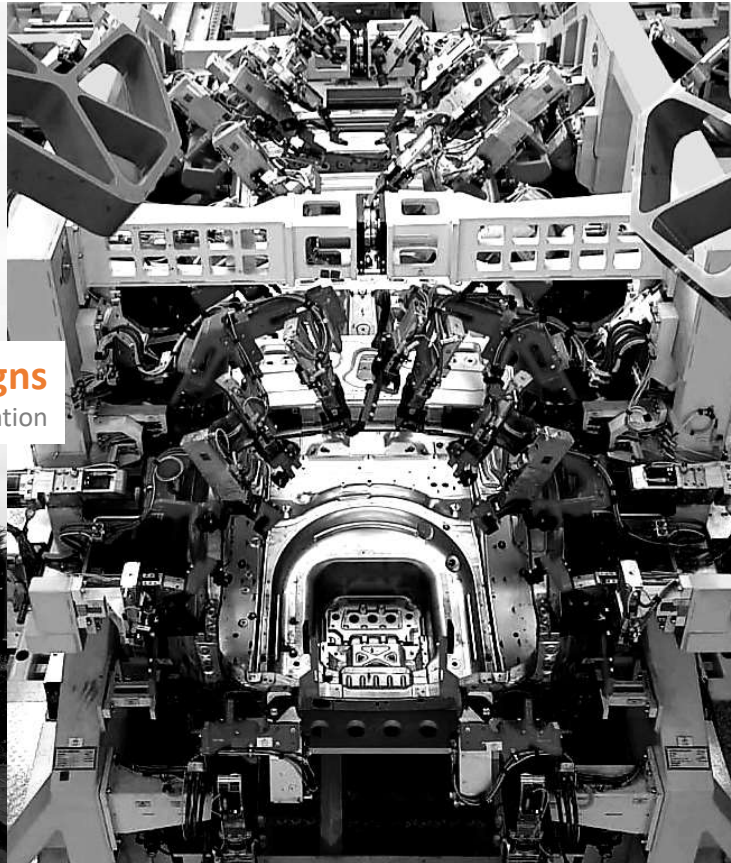




**Infinity Project Designs**  
Company Presentation



# ***Making automation affordable***

We are Infinity Project Designs, experts in the field of automation from initial concept through to install and commissioning

Our team has vast experience within the automotive industry, where automation is used extensively to solve a wide array of challenges. We have designed a variety of solutions from a single robot assisting a manual process to vast bodyshops of 200+ robots assembling car bodies. We passionately believe that the future of manufacturing will involve automation in a huge way and want to use our expertise to introduce more and more businesses to advantages of automation, such as improved quality, increased productivity, reduced lead times and improved safety.





## The Infinity Project

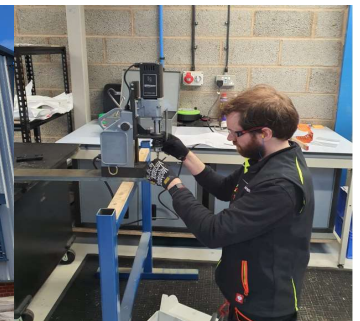
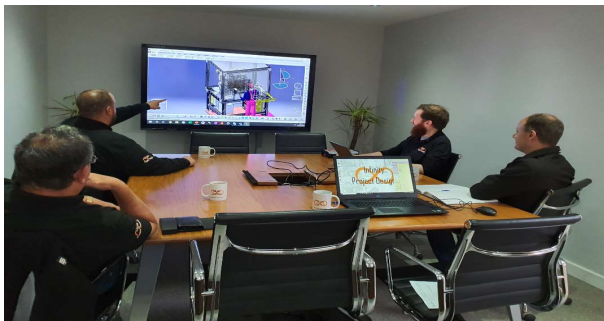
Company History

Infinity Project Designs Ltd was established in April 2018 with an office and unit based in Tipton, West Midlands, bringing together three Directors with a combined experience of 25+ years within the Automotive Industry, a manufacturing sector highly reliant on automation and cutting edge technologies. Through the successful implementation of many large scale automation systems it was clear the huge benefits automation brings to our customers, and as automation becomes more affordable we wanted to be able to offer these benefits to SMEs.

“Making automation affordable” is our company ethos and we strive to be able to supply our customers with cost-effective automation. We work very closely with our clients through all stages of a project, bringing a focused, driven and collaborative approach. We understand the importance of giving our clients a competitive edge over their competition, and we use our expertise and skills to develop systems that suit the business needs and requirements of our customers. Our office will conduct the design phase of any project, which involves design the system, including the process, tooling, layout and controls. Covering all bases with the customer involved throughout.

The industrialisation phase is where the project comes to life. The cell will be constructed and tested until fully functioning, signed off with a formal buy off with the customer. This phase can either take place at the customers site or in Infinity’s unit. If Infinity’s unit is used it allows the “noise” of this phase to be kept away from the existing production area. Once bought off the cell will be moved to the customer’s premises with a much-reduced installation phase and buy off, reducing disruption to a minimum.

We aim to keep the customer involved throughout and offer training and maintenance packages to ensure the cell can be kept in good condition once the install is complete.



Company Presentation  
Infinity Project Designs

## Infinity Project Designs

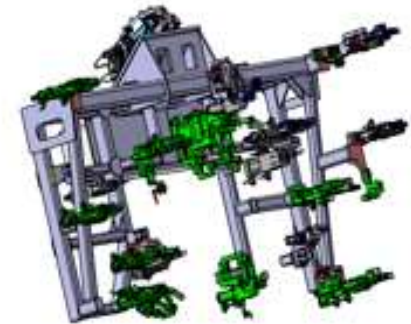
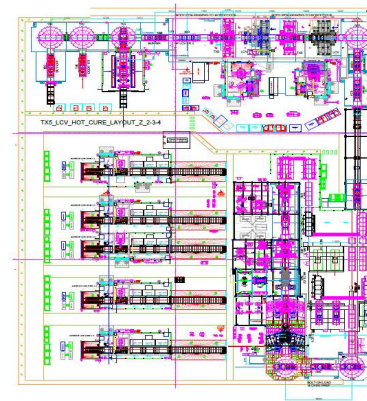
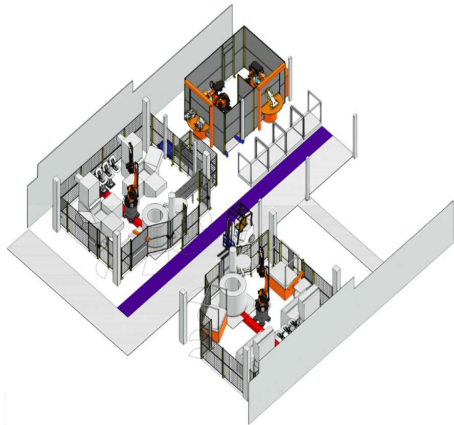
Concept and Design



Design and Simulation essentially helps manufacturers evaluate, analyse, improve and validate the functions and/or performance as well as the manufacturability of a product in a virtual world. In many industries including automotive, aerospace, architecture, electronics and even household product manufacturing 3D design and simulation has become the standard approach to product development.

At Infinity Projects we specialise in 2D / 3D design and Simulation using our in-house design team and our offshore design house partnerships. From concept phase we realise the customers requirements into a virtual world to interrogate the designs and prove feasibility before going into manufacture. Using various software packages including Catia V5, RobCAD, KUKASim, AutoCad to name but a few we can visualise, modify, review and improve the customers' requirements in a cost effective and timely manner.

An accurate Shop / Facility Layout helps improve efficiency, reduce manufacturing cycle times, reduce costs and ultimately improve output. We have a wealth of experience in producing layouts be it process layouts, Bodyshop floor plans or site surveys for new facilities. We will also update and modify existing layouts to reflect site changes and modifications that have not been back engineered into that existing layout.



## Infinity Project Designs

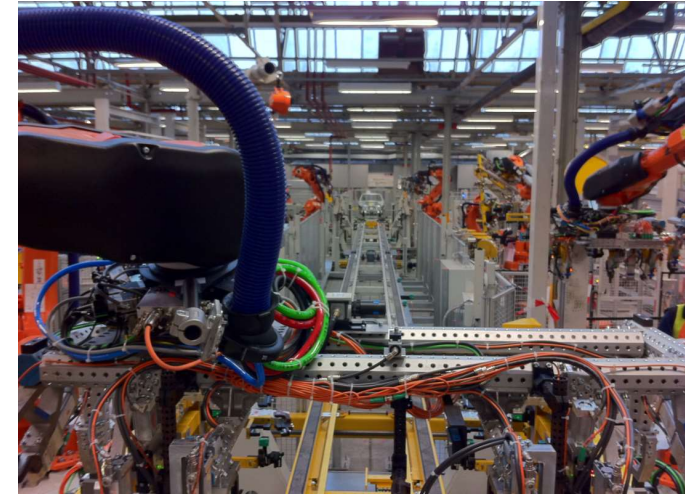
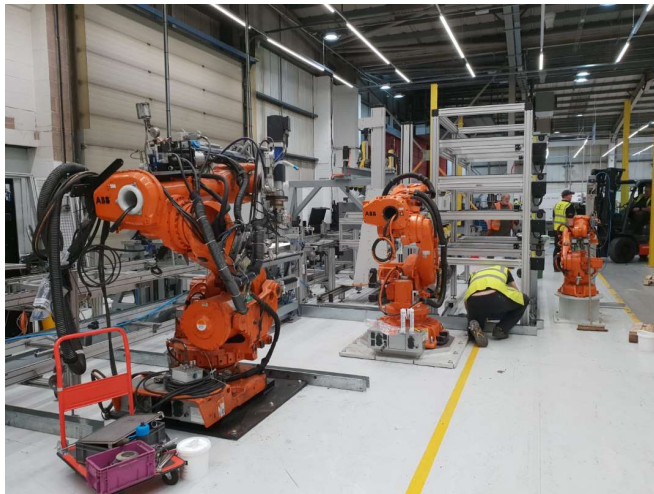
Install



Infinity Projects have vast knowledge and experience when it comes to Manufacturing, Installation and Commissioning works. We have a customer base that relies on us all year round, whether it is to manufacture and produce bespoke tooling or to install and commission large scale production facilities. Our knowledge has been gained through years of working alongside OEMs in the UK and overseas and supporting many Tier 1 Suppliers along the way.

We have a pool of engineers available in all disciplines be it controls / software engineers, able to plan and implement efficient cost-effective applications to experienced robot programmers who can realise the 3D simulations and implement process improvements to achieve the customers' expectations. Pneumatic and Electrical plans are written and reviewed with the customer prior to implementation as part of the installations control plan.

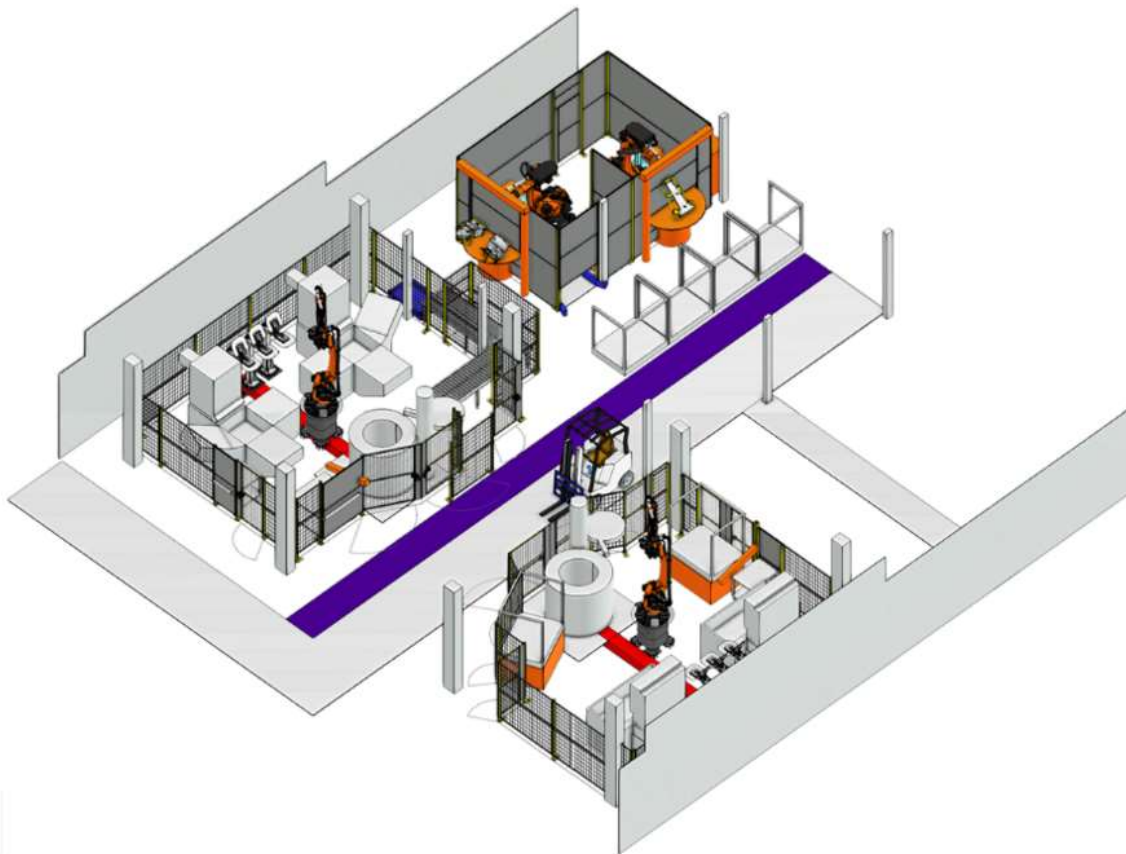
Infinity Projects has the infrastructure to be able to source, build and commission projects in our facility before they are bought off and installed at the customer reducing the impact on current production of the end customers facility.





## Infinity Project Designs

Turnkey Projects



At Infinity Project Designs Ltd we offer complete Turnkey systems for a variety of Customers, both manual and automatic across the Production and Manufacturing sector. Our experience spans all phases of contract execution from the initial concept design phase through to detail 2D / 3D design, manufacture and on-site installation, commissioning and final customer buy-off.

Each of our contracts are assigned a dedicated project manager who provides a primary point of contact for the Customer. The contracts are managed pro-actively to ensure that the customer's requirements and objectives are understood, clearly defined and met in full. Bringing together a variety of technical disciplines from our in-house resources and our trusted out-sourced partners we can offer advice and support on every aspect of your project including simultaneous engineering, controls, planning, procurement, risk management and Health and Safety.

Our Project Managers adopt a planned, organised and controlled approach to deliver your project on cost and to your required milestones, whilst maintaining world class safety, quality and process performance.

Our clients often rely on us for their feasibility studies when they are looking at introducing new products, processes or applications into their facility. As well as updating and modifying existing tooling and facilities to incorporate new product changes. We have a wealth of experience in providing electrical / mechanical automation systems for discrete part manufacturing, process manufacturing, assembly machines, machine tending, packaging etc. From individual sub assembly robotic cells to larger OEM BIW production cells Infinity Project Designs has the experience to provide the full turnkey package to support your needs.

## Infinity Project Designs

Project Wilson



Project Wilson is our Rapidly Configurable Robot Cell. Wilson was born from our slogan “Making Automation Affordable” and is part of our vision of making automation attractive to small and medium sized businesses. Many small and medium sized businesses do not believe it is viable to automate their manufacture, expecting a large cost and a complicated project full of risks. Project Wilson incorporates a large amount of standardisation into its design, allowing for a cost-effective low risk solution to be proposed to our customers.

The challenge for us, when producing a standard cell, was to ensure that it is flexible and configurable. Wilson does this by using additive manufacture (3D Printing) to produce its handling tools. This means that by loading a tray full of parts, that are nested in 3D printed grippers, your robots will have a standard way of picking up any part. This also gives the benefit of being able to quickly change parts with no change over time, just load a different tray of parts.

The flexibility from additive manufacture means it is cost effective to introduce additional parts into your cell. This also means that in the future Wilson could easily be retooled with a complete new suite of parts if the original set of parts are no longer required

Wilson is portable and easy to move around your facility. The cell is designed to fit into a transit van for easy delivery to your site or to move between sites. Wilson is also modular and designed so that multiple Wilsons could be connected if a larger solution is required.

Some of the processes that Wilson would be suited towards are:

- Small Part Assembly
- Casting Form Assembly
- Cleaning and Deburring
- Machine Tending
- End of Line Packaging



## Infinity Project Designs

Project EVA



Project EVA is our new exciting product that we have added to our range in 2020. This lightweight, affordable industrial robot, aligns with IPD's values by making automation accessible for any size business.

For pick and place tasks, Eva has been designed to be installed and programmed in under 30 minutes by someone with no prior robotics experience.

For more complex projects or those requiring integration with existing machines, our in-house integration team will be able to tailor design and install the system that fits your requirements.

### Connectivity:

There are multiple ways to programme Eva. Teach by hand and fine tune with Choregraph, the browser-based software. Use the REST API and Python SDK to build integrations and expand the robots functions further

### Simplicity:

Eva's light weight and small footprint enable rapid changeovers to minimise downtime between runs, with no special technical expertise or equipment required. Eva is ideal for smaller and mid-sized manufacturing businesses with high mix, low volume runs. No control boxes, no pendants required.

### Key Features:

- Increase throughput and efficiency
- Reduce production costs
- Free staff from manual tasks
- Remove bottlenecks in production
- Affordable systems starting from £25k





## Infinity Project Designs

Customers

# Infinity Project Designs



