



# SAUCECODE (PTY) LTD

TO PRODUCTION  
FROM PROTOTYPE

AND BEYOND

It needs to make your life easier

[www.spacepencil.co.uk](http://www.spacepencil.co.uk)

Low-code  
Development Stack

**ROBOTEUR**  
BY SPACEPENCIL

RPA  
Toolkit

**STARBRIDGE**

Low-code Integration  
Framework

**JISTRO**

Productivity Management  
and monitoring

Conceptualising | Prototyping | Development | Testing | Deployment | Maintenance and Enhancement

# OUR COMPANY

**INDEPENDENT ENTERPRISE SOFTWARE DEVELOPMENT USING CUTTING-EDGE TECHNOLOGY TO CREATE BUSINESS APPLICATIONS, AUTOMATION, AND CONVERGENCE TOOLS AND SOLUTIONS.**

**OVER  
100 YEARS  
EXPERIENCE**

## Full stack software development | Professional Services

Est. 2016, Saucecode is a software development and innovation company that employs cutting-edge technologies including robotics to create RPA and Low-Code Business tools, Software applications and products that deploy into a variety of industries. Software applications are based on Saucecode's intellectual property our LOW-CODE Development Stack, RPA Toolset, and is available under license for general market consumption under primarily a 'to license' model.

The company addresses a number of areas of development: web and native app development; e-commerce; distributed software and API development; artificial intelligence (AI) and software Automation and data convergence.

Saucecode has a dedicated and carefully selected team of experts built from long-standing associations in the Software development and business environment that share a vision of software that directly enhances business methodologies, productivity and cost savings.

## OUR SERVICES:

### Software Products and tools

Solutions in modern languages and systems integrated around our Z1 IP framework. Distributed software and API solutions Application store distribution Payment integrations and management. Financial Services Applications Rapid prototyping of solutions. Architecting and developing modern APIs over legacy solutions. Maintaining and scaling existing systems on an enterprise level. Native application development.

### AI/Machine Learning & Robotics

RPA Bot applications are built to eliminate the need for time-consuming functions carried out by expensive human resources. Bots improve accuracy, speed and efficiency which are programmed to achieve business goals and are distributed across multiple functionalities. Bots collect and allow for the processing of data from the Internet and larger and dark data sources to create information that controls human interaction and resource wastage, again, so our clients can achieve goals and outcomes.

### Business and Web Apps

Production and deployment tailored to specific requirements and environment includes business and web application Data, process and community management through web application creation Location and tracking service architecture.

### Business automation goes beyond RPA

Robotic process automation (RPA) was 2021's disruptive technology, with organisations realising the benefits of deploying bots to perform repetitive and tedious tasks. But, as is so often the case, companies want more.

**Gartner expects RPA software sales to hit \$2.9-billion this year, up from \$2.4-billion in 2021, at a sterling year-over-year growth rate of 19.5%. This compares to the rest of the software market, which is expected to grow at 16%. And next year, the rise is set to continue, with a further 17% growth rate predicted."**

The RPA market is booming – but it is not the entire story by any means. The growth won't be RPA as we know it: hyperautomation is the name of the game, says Gartner. Organisations will expand their automation technologies to include low-code application platforms, process mining, task mining, decision modeling, computer vision and integrated development planning (IDP).

**Saucecode helps organisations quickly move to hyperautomation with Roboteur, Z-One and StarBridge.**

"RPA has become the entry point for hyperautomation, and forms part of the overall solution. What organisations need is a layer that enables things like computer vision, integration with legacy system and the other services required for hyperautomation."

## WHAT SAUCECODE OFFERS

Saucecode offers a wealth of solutions based on its Z-One low-code development platform, including Roboteur RPA and StarBridge hyperautomation.

Saucecode's professional services are available for customers or partners who don't have their own skills in-house.

Saucecode is a South African start-up that is taking on the global automation giants with home-grown solutions that enable organisations of all sizes to take advantage of simple, cost-effective automation.

# ROBOTIC PROCESS AUTOMATION (RPA)

## ROBOTEUR BY SPACEPENCIL

RPA is the automation of activities across multiple functions, integration of data from multiple systems and/or software that does the reading, typing and clicking instead of the human. At a basic level RPA is a process of making a computer do repetitive tasks, it requires expected inputs and outcomes, with clearly defined decision-making capabilities.

Typical implementation considerations include staying competitive, to fast track innovation through process optimisation, reducing costs, the need to grow with less or to enhance agility and is ideally applied to Highly manual and repetitive processes. Processes that follow standard rules, that have a low exception rate with a standard readable electronic input. Processes with typically high volume but low inputs, stable and don't change too often.

### Common RPA use cases include:

- Operating and extracting data from PDFs or interacting with spreadsheets including legacy data
- Filling in forms
- Reading and writing to databases
- Following if/then/else decisions
- Connecting to system APIs
- Making calculations
- Collecting managing and mining statistics

### Roboteur by SpacePencil

Saucecode's Roboteur RPA solution has turned the market on its head through its low cost and ease of use. Roboteur combines sophisticated features with a user-friendly interface and simple process design.

Roboteur has a low cost of entry and doesn't attract huge consulting, development and maintenance fees. This means that organizations can automate more processes without incurring the massive costs often associated with RPA. Bots are developed through a drag-and-drop interface, with a library of over 300 preconfigured commands available, so command configuration is repetitive and the modular building blocks used to create bots are reusable. Scheduling and management are simplified and reliable, so human intervention is kept to a minimum.

### Roboteur

Essentially, it is a visual programming platform with a lot of intelligence built in. It is different from the status quo because it's built on new technology and is distributable – you can run it as a desktop app or on a web browser, in the cloud or locally. It is a general automation tool that ticks all the boxes from the core outward. It builds out the conceptual layers that are the entry point for RPA tools.

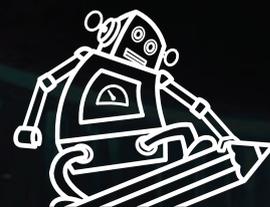
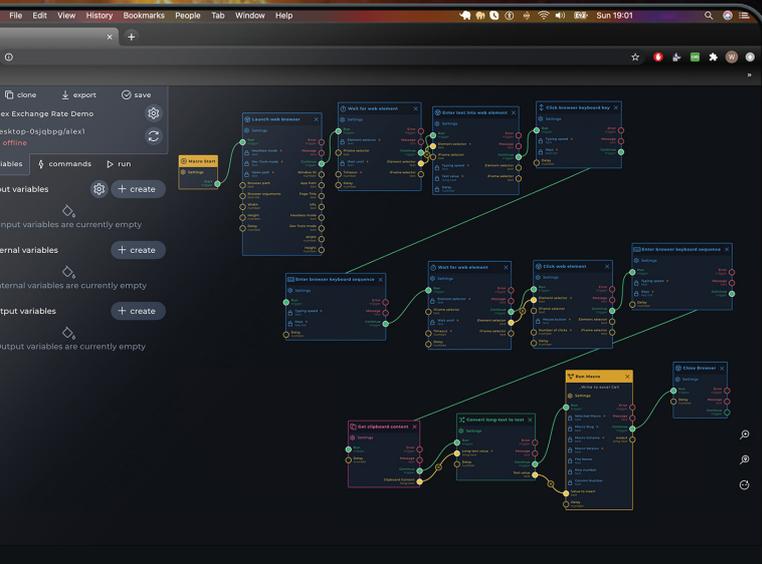
Roboteur is 100% agnostic to technology. One single platform works with EVERY technology from the presentation layer OR from back-end integrations, databases and APIs.

Roboteur does not require you to learn a language. It can automate in minutes and can be done by any developer who knows how to apply basic logic. Add this to the 100% agnostic technology and you have a very powerful process automation platform. From mainframe green screens to the latest cloud apps – automated straight through process by the same platform.

Roboteur Scales. Process steps or modules can be reused, shared and maintained across the enterprise. Versions are managed and processes are triggered based on business events.

Governance, Risk and Compliance. Macros are invisible, unknown and unmanaged. They are a serious security risk and a business disabler. Roboteur is managed, visible and controlled. You know exactly what runs where and every single step is visually recorded to provide the ultimate audit trail.

**ROBOTEUR BY SPACEPENCIL IS AN RPA PLATFORM AND DEVELOPMENT ENVIRONMENT THAT MAKES IT SIMPLE AND INEXPENSIVE TO AUTOMATE PROCESSES.**



**ROBOTEUR**  
BY SPACEPENCIL

# Z-ONE AND STARBRIDGE LOW-CODE DEVELOPMENT FRAMEWORKS BY SPACEPENCIL

RPA is no longer the whole story: analysts believe that hyperautomation is rapidly becoming a vital part of every IT and business process.

Gartner says organisations will expand their automation technologies to include low-code application platforms, process mining, task mining, decision modelling, computer vision and integrated development planning (IDP). Forrester agrees with the direction the RPA market is taking: it predicts that RPA will rapidly become part of a broader automation fabric to support enhanced digital differentiation and transformation. And a new report from Robocorp indicates that the new generation of RPA is rapidly becoming an imperative, with open source low-code development and organisation-wide automation the next step in the RPA journey.

Gartner defines hyperautomation as a business-driven, disciplined approach that organisations use to rapidly identify, vet and automate as many business and IT processes as possible.

Saucecode helps organisations quickly move to hyperautomation with its Z-One and StarBridge solutions.

There is a low-code stack with Z-One, which gives the commonality and the ability to pull data from wherever it is and connect all the way up the software pillars to StarBridge, where you can connect, convert and manipulate data, add in RPA where it's needed, and feed the data back in whatever form is required.

StarBridge is the layer that bridges all the systems and can connect down to everything else in the organisation. It brings everything out from the shadows, and then RPA or any other tools can be used to do what is needed with the data. It gives customers a much better view of their data, enabling them to manage, manipulate and create intelligence out of it.

Gartner defines a low-code application platform as "an application platform that supports rapid application development, one-step deployment, execution and management using declarative, high-level programming abstractions, such as model-driven and metadata-based programming languages." According to Wikipedia, a low-code development platform provides a development environment used to create application software through a graphical user interface instead of traditional hand-coded computer programming. A low-coded platform may produce entirely operational applications or require additional coding for specific situations.



## Z-One Low-code Development Platform by SpacePencil

Z-One is an incrementally adoptable modular software system, aiming to automate the labor and complexity out of developing composable multi-platform projects. The Z1 core packages augment the Feathers, React, Redux, and Tailwind frameworks.

Typically, programming happens on an X-Y axis – it's a linear approach. The idea behind the Z-One platform is to introduce a third dimension - the Z axis. The basic premise underlying Z-One is to make coding an open system plug-and-play concept. We built the first generic framework for Z-One, which was used to create the robotic process automation (RPA) product Roboteur, which has proved itself as a cost-effective but highly efficient alternative to big-ticket RPA leaders. Now, Roboteur is being employed to further develop the Z-One platform, which gives software developers an open-source plug-and-play platform.

**"Keeping track of how data is being stored, presented and consumed is a big ask but once it is standardised you don't have to think about it again. All you have to worry about is the input going into the system and the output you want to come out."**

- Barry Buck, Saucecode Conceptual Engineer

The Z-One platform gives developers access to blocks of services which can be linked together to produce an implementable file that can be ported between different systems. It is a true low-code solution that developers can use to accelerate their application building. Essentially, they can build something once and use it many times; learn once and write anywhere. With a small set of standards, they can now achieve a huge amount of productivity. The platform is like a rack for code, which developers can plug in from an open-source repository or resource library. These blocks of code would be developed or compiled using the built in ZStudio. Importantly, Z-One is always completely backward-compatible so existing code would never be affected by updates to the platform or to any of the code blocks used to create applications. So you can update the development layer without worrying about how it will affect the implementation layer.

For most developers today, the way they build software solutions hasn't really changed in decades, but Z-One is set to change that. The platform is feature-complete now, with a visual designer, data structure to create user logic and data stores.

**"It is a true low-code solution that developers can use to accelerate their application building, essentially, they can build something once and use it many times; learn once and write anywhere. With a small set of standards, they can now achieve a huge amount of productivity."**

- Barry Buck, Chief Technology Officer of Saucecode



## StarBridge by SpacePencil

StarBridge is the macro portal, an application that exposes a minimum set of user inputs to efficiently execute work across multiple systems, increasing productivity while reducing cognitive load. These apps are faster to develop than traditional applications because of Z-One UI kits and Roboteur as a backend data and logical layer consumed by API which requires no code to develop.

Macro portals or bridge portals are like midi controllers for electronic musicians as a mental model. Key variables made available as knobs and sliders that affect multiple parameters in the instruments. We believe that with StarBridge, we can deliver reduced development effort while saving money and increasing quality.

The StarBridge brings together all the disciplines associated with software development into one platform. This makes it very easy to create high-quality software that could include complex features – and it's 1000-times faster than normal development.

It gives organisations the power to be able to deliver macro software solutions, with the ability to span multiple facets of the business, addressing a lot of separate tasks with high cognitive loads. It does all this in one user-friendly business space that gives organisations the ability to pivot with their business needs.

