Spectrum Automation Ltd are committed to providing quality automation services and solutions designed and tailored to meet our client's precise technical requirements.

We pride ourselves in providing our clients with a quality service which includes the design, development and supply of bespoke software solutions.

Over thirty years experience of working in this field gives us an invaluable understanding of the automation industry and of the automation solutions available to our clients.

The technology involved in automation is constantly evolving and developing and we pride ourselves in being able to constantly adapt and master each new and innovative technological product that appears in the industry market-place.

We believe that one of our many strengths lies in our ability to work closely with a client in order to design, develop and supply a software solution that meets the needs of that client. We also believe in clear and concise explanations of the technical solutions at hand and aim never to confuse our clients with technical 'jargon' specific to our field of expertise.

We are always looking for new and innovative technical solutions for our clients to use to improve their manufacturing facilities, product quality and production efficiencies.

Another key element to our success is our ability to work seamlessly with companies from other disciplines within the automation industry, particularly on large multi-million pound projects. We believe that teamwork is essential for any project to be completed successfully to the client's satisfaction.

We currently have four staff members compromised of two full time senior software engineers, one part time intern and one part time administration assistant. Our two full time senior software engineers have over thirty years experience in the automation industry and have worked on a variety of different sites across the UK, Europe and the USA.

Industries served:

Consumer healthcare
Pharmaceuticals
Nuclear
Food & beverage
Conveying/Warehouse
Water & utilities
Telecommunications
Automotive
Chemical

Control systems:

PLC	SCADA	HMI	Batch
Siemens S7-300	iFIX	Siemens TP1500	iBatch
Siemens S7-400	FIX32	Siemens TP700	FactoryTalk Batch
Siemens S7-1200	FactoryTalk View SE	Siemens IPC	
Siemens S7-1500	FactoryTalk View ME	Siemens MP270B	
Rockwell ControlLogix		Siemens MP277B	
Rockwell CompactLogix			

Recipe Writing/Configuration:

FactoryTalk
iBatch

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Software:

- Siemens SIMATIC Manager.
- Siemens STEP7 Professional (TIA Portal).
- Siemens WinCC Flexible (legacy and TIA Portal).
- Siemens TIA Portal versions 13, 15, 15.1, 17, 18.
- Rockwell RSLogix 5000.
- Rockwell Studio5000.
- FactoryTalk View.
- FactoryTalk Batch.
- AspenTech IP21 data historian general usage.
- Aveva Pi (formally Osi Pi) data historian general usage and advanced system/server configuration and setup.
- Cisco switch troubleshooting and programming.
- Rockwell Stratix switch troubleshooting and programming.
- Active Directory (AD) configuration.
- Rockwell OPC data link configuration.
- SEW-EURODRIVE MOVISUITE for SEW-EURODRIVE inverter advanced configuration including configuration of MOVIKIT Velocity, Positioning and TouchProbe modes of operation.

Hardware:

- Siemens I/O configuration.
- WAGO I/O configuration.
- Rockwell I/O configuration.
- Rockwell PowerFlex drive configuration & setup:
    - Setting initial nameplate data.
    - Configuring/setting drive parameters.
- Zebra printers:
    - Configuration/setup.
    - Label design.
    - Printing from a Siemens PLC.
- Cognex scanners (handheld and fixed position):
    - Configuration/setup.
    - Optimisation.
    - Scanning into a Siemens PLC.
- Siemens Sinamics and MicroMaster drive configurations:
    - Configuration/setup and operations.
- SEW-EURODRIVE MOVIDRIVE inverters:
    - Configuration/setup and operations.

Notable projects completed to date:

- Consumer healthcare 6 mixer and associated raw materials and utilities control system upgrade from Siemens S7-300/S7-400, FIX32 SCADA and Siemens HMIs to Siemens PCS7 (legacy side).
- New mixing suite in the UK (on site) including main mixer interface, two ancillary tanks, full CIP, HMI & recipe integration.
- Full area HMI upgrade migration from older Siemens MP270B/MP277B units to new Siemens IPCs (six HMIs in total).
- New mixing suite in the USA (remote) including main mixer interface, 3 ancillary tanks, full CIP, SCADA, recipe & batch system integration done remotely during the COVID pandemic.
- New premix tank with all associated phases being run from a recipe batching system including production & CIP phases and SCADA integration.
- New powders control system including two external silos, two buffer hoppers, two big bag stations, 6 receiving hopper vessels with associated vacuum transfer control and HMI/recipe integration.
- New automatic liquid dosing phases added to existing PLC-based recipe system to accurately dose multiple liquids into mixers and ancillary vessels.
- Two full high speed filling line upgrade integrating systems from various vendors to be controlled by one central PLC with associated overhead screens and HMIs.
- Upgrade of full site wide control system units of measure for USA customer from lbs to kgs followed by detailed control system and validation testing tasks.
- Addition of two new liquid storage tanks and associated sequences to transfer liquid from road tankers to new tanks and from new tanks to existing tanks with recirculation mode to increase site storage capacity.
- Tanker intake and day bin re-fill vessel sequence upgrades.
- New liquid heating and chilling system controls.
- Boiler system upgrades.
- Powder ingredient dispensary systems x 5.
- New Sack Tip control system.
- Siemens training for on-site customer technicians and automation engineers.
- Warehouse wrapper PC server re-build.
- New plant wide purified water system integration.
- Installation & configuration of Osi Pi data historian system at both a large UK site and a large USA site. Multi-site validation & functional testing support working with off-site central Osi Pi customer team.
- General third line support at major consumer healthcare sites both in the UK and USA assisting on site automation engineers with fixing production problems on a regular basis.
- On site commissioning of various new automotive assembly lines.
- Upgrade of frozen pizza dough processing conveyor system including SEW-EURODRIVE MOVIKIT Velocity, Positioning and TouchProbe modes.