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company statement

At Manabotix, we believe there are no obstacles an engineered approach cannot solve. We deliver custom solutions that breakthrough barriers to help you achieve that competitive advantage.

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main header

ABOUT

paragraph copy

Manabotix provides specialised engineering expertise and smart automation solutions for clients across many sectors. We deliver solutions for safety, productivity, and asset management issues—so that you can achieve your business objectives.

We practice what we preach and believe engineering solutions require:

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Gradient 2

EXPERIENCE, SKILL AND CARE

APPRECIATION of business CONSTRAINTS & EXPECTATIONS

An INTIMATE UNDERSTANDING of issues

Automation through ENVIRONMENT MEASUREMENT & INTELLIGENCE

Outcomes that are significant and of a HIGH VALUE, to the satisfaction of all stakeholders

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small header

MEET THE BRAINS

355 x 230 px

131 x 120 px

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smallest copy

Dr Stuart McCarthy

An experienced engineer and manager, Stuart has a keen business acumen. This, coupled with an agile mind and a desire for creating a positive influence on business culture, makes him top of his game.

Daniel McLeod

A dedicated professional, this mechatronic engineer has more than 8 years’ experience under his belt. Daniel is equipped with expert programming knowledge and an amazing maths brain. What a combination!

LEARN MORE →

button small

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1280 x 545px

CAPABILITIES

When we know the why—we can develop the what. The Manabotix team is committed to a thorough understanding of your business obstacles, enabling us to deliver to you a flexible, tailored solution. This would usually be a combination of operating environment awareness, machinery systems, and software solutions, to garner improved productivity, safety, and asset management—depending on your focus.

We know our engineering expertise can help solve the toughest of challenges, and our dedicated team have successfully worked on projects across many disparate sectors.

Our expertise includes:

- Professional engineering services, mechanical, electrical, IT&T, and project management
- Automation solutions, and turnkey system delivery
- Software solutions for control, data acquisition, and analytics

- Sensors and instrumentation, positioning, localisation, environment awareness (mapping, SLAM)
- Control systems: embedded, PLC, SCADA, data acquisition, and decision-making
- Test, instrumentation, measurement, analysis, trouble-shooting

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PORTS

AGRICULTURE

CIVIL

RAIL

BUSINESS APPRECIATION

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main header

Gradient 2

GOT A KINK IN THE SYSTEM? TWO HEADS ARE BETTER THAN ONE—WHY NOT GET IN TOUCH?

main header bold

See how our approach can deliver the results you need to overcome even the most challenging of obstacles.

main header lower case

paragraph copy bold

Manabotix Pty Ltd

GPO Box 2339, Brisbane **Q 4001**

paragraph copy

P: +61 408 981 388

E: info@manabotix.com

ABN: 71 614 498 501

Gradient 2

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545 x 329 px

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menu copy

First Name

Last Name

YOU CAN REACH ME BY:

☐ Phone

☐ eMail

I am in the business of... (tell us a little about your company)

I'D LOVE TO EXPLORE MORE ABOUT...

Tell us bit about what is on your mind...

button small

Gradient 2

CONNECT

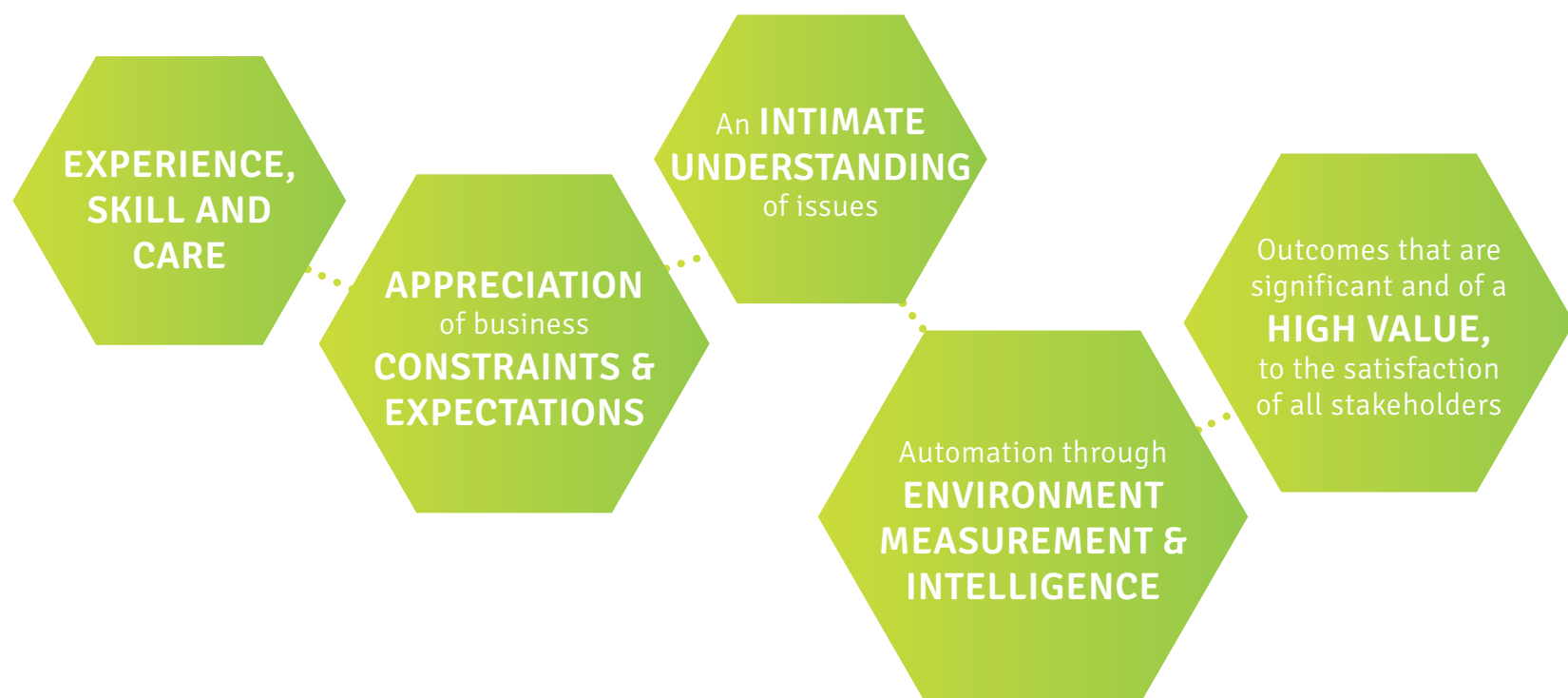
EXPERTLY ENGINEERED CUSTOM SOLUTIONS

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PIT TO PORT →

AGRICULTURE

CIVIL

RAIL

BUSINESS APPRECIATION

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YOU CAN REACH ME BY:

☐ Phone

☐ eMail

I'D LOVE TO EXPLORE MORE ABOUT...

CONNECT

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OUR PEOPLE

High res image to be supplied



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company statement 2

At Manabotix, we strive to embody the ultimate combination of mana, meaning power, effectiveness, and prestige... and robotics, meaning the interdisciplinary branch of engineering and science.

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OUR ORIGINS

A rich engineering heritage coupled with some laid-back Australian candour means our foundation team is set to take Manabotix to great heights. We take pride in our background, our professionalism, and our experience. You can read about that in more detail below.

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ABOUT STUART

Throughout his career, Stuart has established himself as a trusted professional, who has a strong business acumen which encourages and fosters a positive business culture, and who is highly motivated to deliver valued outcomes to clients. He has demonstrable skills in leadership, strategy, stakeholder engagement, whole of project life-cycle management, and OEM responsibilities.

Stuart has been involved in many innovative and challenging engineering pursuits, ranging from automating agricultural farm machinery and combine harvesters to delivering sophisticated robotic systems for coal export terminals and manufacturing processes.

Before founding Manabotix in 2016, Stuart spent the previous 11 years developing his role as the technical and commercial lead for automation in a SME, delivering bespoke OEM solutions to optimise business systems for end users.

He voluntarily left this senior management role to establish Manabotix, with the vision of providing professional engineering services and bespoke automation solutions to clients across sectors with safety, productivity, and asset management issues. He is committed to providing clients with trusted and valued assistance with minimal technical or commercial risk exposure.

ABOUT DANIEL

Daniel is a highly motivated, professional engineer, who is dedicated to delivering value-adding, innovative, tailored solutions to meet ever-changing business requirements within diverse industries.

During his career, Daniel has been involved in many challenging and interesting engineering solutions — his contributions range from application development of sophisticated machine vision systems and real-time immersive virtual environments, through to providing technical mentorship for junior engineers.

He has experience with leading-edge programming tools, complemented by a proven ability and willingness to assimilate and rapidly utilise emerging technologies. Daniel has solid mathematical knowledge, experience in developing comprehensive real-time algorithms and data processing logic, and a focus on data driven solutions: all with a view to improving client business operations.

Daniel voluntarily left his senior engineering role to join Manabotix, and is focused on, and passionate about, working within a committed team dedicated to achieving results that make a difference.

197 x 143 px



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FORMATIVE YEARS

Rural NSW
Growing wool, red meat, grain. Then relocation to QLD: Bundaberg then Toowoomba.

2003 PhD
Mechatronic Engineering. SRDC-funded, automation applications for sugar cane combine harvesters.

2005-16 SME employee
Most of this time as Business Unit Manager, providing turnkey smart solutions for clients, mostly coal export facilities.

2016 Established Manabotix
and has loved it since!

1998 BE (Hons)
Mechatronic Engineering

2004 Post-doctoral fellow
UGA, Tifton, USA. Concerning ad hoc wireless networking for agricultural operations, variable-rate irrigation, and robotic tractor path planning and control.

2015 RPEQ
Mechanical and Electrical

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FORMATIVE YEARS

Humpty Doo NT
Lots of fishing.

2008 Research Assistant
Smart Machine Laboratory, UQ. Dump truck automation application.

BE (Hons)
Mechatronic Engineering

2016+ PhD candidate
Biomedical Engineering. Research focus: ensemble learning methods for classification and regression for determining relationships between dynamic geometric data sets.

2004
Relocation to Brisbane, QLD, for undergraduate studies.

2008 -2017 SME employee
Mechatronic Engineer, delivering industrial smart solutions.

2016 RPEQ
Electrical and IT & Telecommunications

2017 Joined Manabotix
and now getting it done!

1280 x 248 px

JOIN US

Manabotix is growing and we are always excited to speak to like-minded, passionate professionals. Sound like you? Email us and let's tee up a friendly, informal, and confidential chat. Who knows where it could lead!

EMAIL



company statement 2

1280 x 162 px

“The best advice I could give anyone is to spend your time working on whatever you are passionate about in life.” – Richard Branson

1280 x 119 px

Home

About

Team

Capabilities

Contact



For news and updates, follow us:



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Legal Stuff

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MANABOTIX

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MANABOTIX

HOMEABOUTTEAMCAPABILITIESCONTACT

1280 x 576 px

CAPABILITIES

1280 x 273 px

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We are proud to provide businesses with improved safety, productivity, and asset management. Employing professional engineering services and smart automation solutions to make a difference. Our clients trust us, and value the practical assistance we offer. Our assistance has minimal technical or commercial risk exposure. At Manabotix we will not drop the ball. We know what is important to our clients, and their objectives are always top of mind.

company statement 3

1280 x 272 px

NOW, THE TECHNICAL SPEAK.

Our results usually involve: 6DOF solutions and measurements for target bodies or environments, proprietary software to provide required databasing, interfaces, and decisions, and actuation via passive, active, or hybrid systems. We can provide intuitive reporting directly into client enterprise systems, as well as virtual immersive representations (user interfaces) of operating environments. Do you have a process that you know needs improvement, and need someone to provide an appropriate industrial solution? Then ask us!

You can read in more detail below.

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PIT-TO-PORT

450 x 76 px

High res Image to be supplied

AGRICULTURE

High res Image to be supplied

CIVIL

High res Image to be supplied

RAIL

975 x 238px

High res Image to be supplied

BUSINESS APPRECIATION

975 x 76 px

1280 x 119 px

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in

1280 x 85 px

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MANABOTIX

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CAPABILITIES

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You can read in more detail below.



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PIT-TO-PORT



Our automation solutions are from pit through to port — loading operations, rail or truck transport, unload, stockpiling, and shipping — reducing OH&S incidents, increasing production and throughput rates, mitigating machine damage exposure, and improving reliability and uptime of assets.

Examples include: improved train load out operations — including remnant product on arrival and product profile on departure. As well as in-yard and ship loading solutions for standalone pose, skew management, terrain and ship hold measurements, vessel monitoring, and collision awareness.



AGRICULTURE



The agricultural sector has always been close to our heart. Our founding team has invested many years in rural Australia, both through a solid foundation and study — Stuart was raised on farms, and his undergraduate, PhD, and post-doctoral studies were ag-focused, and Daniel has always has a keen interest in aquaculture and sustainability.

Manabotix is a technology provider who can engage and relate to regional challenges. Our solutions encompass in-field through to processing improvements for cropping and livestock operations.



CIVIL



We provide asset tracking outcomes based on satellite positioning and inertial attitude technologies for navigation and control. Generated data lead to information for improved productivity and safety for mobile machines, for example dozers or graders.

These sorts of technologies also complement scanning applications to provide terrain measurements world frame, and enable management of virtual fencing and establishment as well as transfer of effective work methods.



RAIL



Our experts at Manabotix have significant experience in the rail sector. We provide wayside rolling stock health determinations to assist preventative maintenance strategies. We can provide automated reporting and significant event alarms so that corrective action priorities may be established for implementation.

Some examples of previous results in this area include: rollingstock identification, tracking, open doors, door mechanism health, wagon sill and shell geometry, and volumetric assessments of hopper contents.



BUSINESS APPRECIATION



Through business intelligence and analytics, we can help clients achieve significant outcomes. Results that can often lead to the delivery of appropriate automation solutions — appreciation then technology. To break it down...

Intelligence may answer: What happened, when, who, how many?

Service and product provision could include: Internet of things (IoT) solutions, reporting (KPIs, metrics), automated monitoring/ alerting (thresholds), dashboards, scorecards, online analytical processing (OLAP, cubes, slice and dice, drilling), ad hoc query.

Analytics may answer: Why did it happen, will it happen again, what will happen if we change 'x', what else does the data tell us that we had not ever thought to ask?

Service and product provision may include: Big data statistical/quantitative analyses, data mining, predictive modelling, multivariate testing.

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