SAGE Certainty

SAGE Automation

March 2015

This issue of our newsletter features stories about our team taking their skills to mine sites here and around the world, a small change our SAGE Service team have implemented making a big environmental impact and the exciting world-first robotic technology we are now integrating for customers here in Australia.

This year is certainly off to an action packed start and we hope you enjoy a successful 2015.

Cheers, Adrian Fahey

5 Minutes with Stephen Miller, Principal Commissioning Technician

Q. How long have you been with SAGE Automation?

This month is my 10th anniversary with SAGE.

Q. What are the exciting opportunities in your region right now?

Currently I am working with Enerflex on a Santos site in Queensland commissioning Howden Screw Compressors on a Gas Compression Station. The work is part of the multiple Coal Seam Gas projects that are currently underway in Queensland. The Santos Coal Seam Gas works involves hundreds of field Well Heads supplying gas to several Gas Compression Stations. Here the gas goes through 2 stages of compression to achieve mainline gas pressure (approx. 10,000kPa) before being piped over 500km's to the LNG plant built on Curtis Island in Gladstone where it is cooled down to -161 degrees Celsius for transportation.

Q. What is the most personally rewarding part of your role?

To be given the opportunity to work on different projects in different markets sectors and to help clients achieve their project goals.

Q. What is the highlight of your career with SAGE Automation so far?

I originally started in the SA office before moving to the Victorian office to start SAGE's first interstate Service Office. It was a great opportunity to grow the department with skilled technicians that continue to achieve positive outcomes for our clients.

Q. Outside of work, what is your favourite thing to do?

I'm a golfing tragic and welcome any opportunity to have a game. During some recent holidays I have was fortunate enough to play at St Andrew's Old Course (the home of golf) in Scotland and Bethpage Black in Long Island New York with the highlight being breaking 80 of the stick at St Andrew's (78).

Projects

A dedication to safety supports the worlds leading mines

Cyanide is used in the leaching process to extract gold from ore and is shipped to site as a solid to reduce the risk associated with transportation and the environment. Once on site, the concentrated cyanide needs to be restored to its original form using Sparging Systems for use in the mine process.

SAGE Automation designed and developed the control system for the Sparge Units, including the electrical design, panel construction, PLC, HMI programming and commissioning.

In addition, SAGE provides ongoing support for Orica in its service delivery program for their sparge plant facilities all over the world, conducting annual inspection audits of the sparging units control systems, critical safety checks, tuning and identifying of areas for improvement.

Orica Project Engineer Vinh Ly, describes why he turns to SAGE to support this product. ***"Orica is a signatory to the International Cyanide Management Code (ICMC) and is committed to ensuring the safe handling and management of cyanide on customer mine sites. Our trusted partnership with SAGE Automation assists Orica to support our customers to employ safe and efficient practices in cyanide management."*** Ly said.

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Delivering Certainty in the supply of gas to more than 1.4 million residents

APA owns and operates energy infrastructure assets across Australia including The Victorian Transmission System (VTS). The VTS comprises of high pressure gas transmission pipelines, serving 1.4 million residential consumers and 43,000 industrial and commercial users.

The Dandenong LNG storage facility is a critical piece of this infrastructure, providing peak shaving and security of supply services as well as supply of LNG for commercial consumption.

SAGE was engaged by APA Group to upgrade the facility's legacy control system and replace it with a new system compliant to APA Group's national SCADA standards.

"SAGE is one of the first integrators to develop a control and SCADA system in line with our standards and took a collaborative approach to deliver the system we required." Ron Lourensz, Engineering Services Manager APA Group

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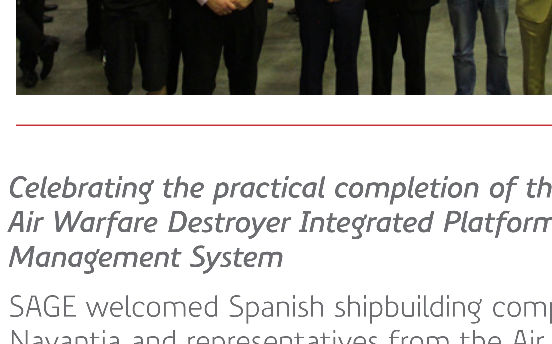
Manufacture



Celebrating the practical completion of the Air Warfare Destroyer Integrated Platform Management System

SAGE welcomed Spanish shipbuilding company Navantia and representatives from the Air Warfare Destroyer (AWD) Alliance to celebrate the practical completion of the 450 control panels which form a critical component of the ship's Integrated Platform Management System (IPMS).

Navantia engaged SAGE as their in-country support to deliver the control panels for the IPMS which is used for the real-time monitoring and control of the vessel's hull, mechanical, electrical, damage control machinery and systems.

The works took in excess of 9,500 hours over 4 years and the set to work activities are due to commence shortly.

Donato Martinez of Navantia thanked SAGE by saying ***"Thank you to the entire team, for 4 years of hard work. This is not the end, we now look forward to the set to work and sea trials".***

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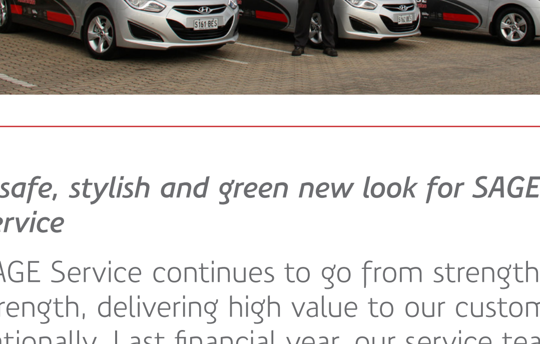
Service



A safe, stylish and green new look for SAGE Service

SAGE Service continues to go from strength to strength, delivering high value to our customers nationally. Last financial year, our service team attended over 3,500 service calls around the country.

Recently, in reviewing our business strategy, we identified the opportunity to better align our fleet of service vehicles with our business KPIS. Specifically we focused on reducing the environmental impact of our fleet.

We are pleased to announce that the majority of our fleet of service vehicles will now be rolled over to the new stylish and versatile Hyundai i40 Tourer. The Hyundai I40 boasts a new generation turbo diesel engine which delivers a powerful yet fuel efficient performance. The move, which has been welcomed by our service team, will deliver a 40% reduction in our greenhouse emissions.

Importantly, the i40 Tourer has achieved the maximum 5-star ANCAP safety rating and is equipped with safety features, including advanced braking, cornering and avoidance technologies, and nine air bags.

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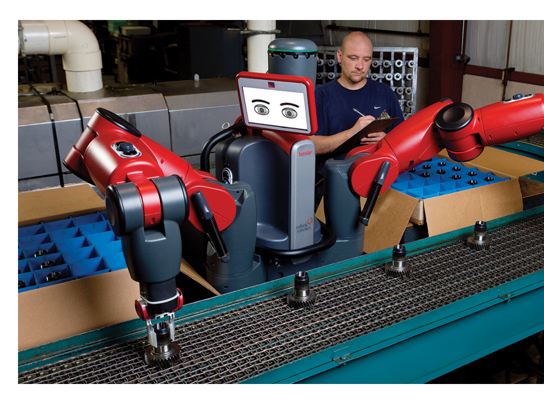
Business Optimisation



Introducing Baxter - the world's first collaborative production robot

Until now, production robots have been separated from people by protective cages, programmed by specialised engineers, and often affordable by only large scale manufacturers.

With efficiency in production cost critical for Australian manufacturers to compete with offshore competition, Baxter, a 'collaborative robot' could be the edge manufactures of all sizes are looking for.

Working alongside people uncaged, Baxter completes repetitive production tasks that are typically difficult or expensive to automate, freeing up human operators to focus on more value-added tasks.

Baxter is intelligent and intuitive - any human operator can simply teach Baxter how to carry out a required task, which is stored in it's memory to perform again in the future. Furthermore, Baxter is mobile and can be re-tasked and re-deployed as required throughout a facility.

As the Authorised Integrator of Baxter Robots in Australia, SAGE Automation works with companies to maximum their return on investment. When integrating Baxter into a process, SAGE first examines the current situation, looking at possible tasks for Baxter which will optimise the overall process. SAGE can also integrate Baxter with other control systems if required and provide ongoing support and training.

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Training

Supporting the development of our Future Engineers

SAGE has a proud history of working with our local universities to support the development of future engineers. Recently, SAGE played host to Adelaide University student Tayesha Papa.

Tayesha has completed 9 of her 12 week placement at SAGE and played a crucial role in the roll out of the Baxter Robot. From its initial arrival at SAGE, through to the high profile launch event and demonstration to an audience of SAGE customers, a Government Minister and even the Channel 9 news, Tayesha has been at the heart of it!

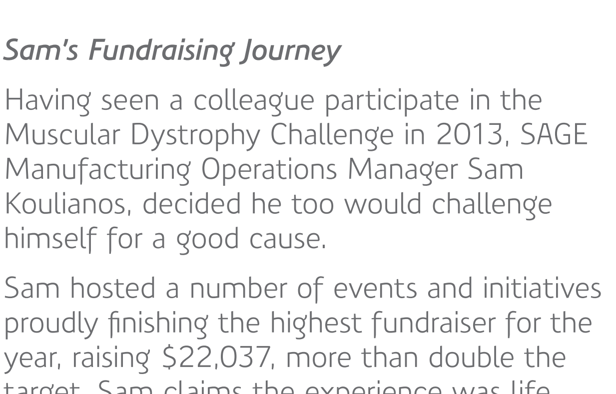
In her 4th year of a combined Computer Science and Mechatronics degree, Tayesha has developed a keen interest in robotics and is an active member of the 'Robogals' group, whose mission it is to inspire female primary and high school students to continue with maths and pursue careers in engineering and related fields.

Tayesha worked with a fellow Adelaide University student and a high school graduate about to commence his first year of an Engineering degree on the project under the watchful eye of SAGE Project Manager Dan Moriarty.

We asked Tayesha what skills she developed during her time at SAGE. ***"Working as a team highlighted the importance of good project planning and communication. These are skills that can only be refined in real life situations. It also enhanced my problem solving skills, I really enjoyed being able to explore and test if this technology was a good fit for each of the tasks identified at Haigh's Chocolates for Baxter."***

And on the nature of the Baxter project, she added, ***"The highlight of my industry placement was seeing the Baxter demonstration go off without a hitch at the launch. It was certainly challenging, but a great opportunity to work with a robotics technology not seen in Australia before."***

In Other News



Sam's Fundraising Journey

Having seen a colleague participate in the Muscular Dystrophy Challenge in 2013, SAGE Manufacturing Operations Manager Sam Koulianos, decided he too would challenge himself for a good cause.

Sam hosted a number of events and initiatives proudly finishing the highest fundraiser for the year, raising $22,037, more than double the target. Sam claims the experience was life changing and has made him some lifelong friends.

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Watch the Baxter video here

SAGE recently hosted over 70 manufacturing companies for the launch of the Baxter Robot and demonstration of its capability across manufacturing applications.

Joined by the minister for South Australian manufacturing and innovation Kyam Maher and first Baxter Robot customer Haigh's Chocolates, Alister Haigh, SAGE Automation CEO presented the newest addition to the SAGE's suite of solutions.

WATCH THE VIDEO HERE

Projects — Innovative engineering solutions for industrial automation and control

Manufacture — World class custom control and power switchboard systems

Service — Fast response 24/7 support from specialist technicians

Business Optimisation — Lean business solutions delivering tangible results

Training — Upskilling today's workforce with enhanced industrial technology skills