



# 1 BEASLEY FOREST PRODUCTS

Beasley Forest Products Georgia USA - New Grade, Sort and Stackline. Beasley are the largest production hardwood sawmill in the United States, producing over 100 million board feet of lumber per year.

### Project Description:

The project entailed the provision of a new Grade, Trim, Sort and Stackline machine for hardwoods situated in the new Drymill. This is a large scale project, with 100 bins running at 100 lugs per minute.



In the USA, Automation & Electronics act as mill electronics partner with TS Manufacturing, who are a family owned & operated manufacturer devoted to the global supply of custom manufactured, quality equipment. In this instance, A&E provided their BinView™ Scada software program plus production reports and PLC controllers for the entire line including Ethernet Synchronized Motion Control, interfaced with USNR Trimmer Optimizer combined with TS Manufacturing Multi-Saw Trimmer. When asked what the project entailed, Riley Smith, Sales Manager, TS Manufacturing had this to say - "The electronics installation and startup of a large capacity grading, sorting and

stacking line - manufactured by TS - in America's largest hardwood producing sawmill."

In regards to why Automation & Electronics were chosen for the project, he stated - "We partner with A&E in the US because of their understanding of the American lumber industry, & their ability to effect sound electronics programming, software and support in a mill environment." Finally, on his lasting impression of his involvement with Automation & Electronics? "Some difficulties were encountered, but A&E pulled out all the stops to see the project through to its completion, and ensure the mill was up to full production capacity and full operating production capabilities."

### A&E EXPO STANDS 2016

AUS TIMBER EXPO - APRIL 11 - 16TH 2016



HMA CONFERENCE - FORT WORTH - DALLAS TEXAS - MARCH 2016

RICHMOND VIRGINIA EXPO - MAY 2016 [www.exporichmond.com](http://www.exporichmond.com)

EXPO RICHMOND

TIMBER PROCESSING & ENERGY EXPO - PORTLAND - SEPTEMBER 2016 [www.timberprocessingandenergyexpo.com](http://www.timberprocessingandenergyexpo.com)



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## 2 MILLVILLE LUMBER MARYLAND USA

### Project Description:

Millville is a two carriage sawmill. The project entailed the installation of a combination edger, fed from both sides, with two operators standing at the infeed and semi-manually feeding the machine.

The operators each have their own individual console. The left hand carriage can cut up to 20ft long and the right hand 16ft.

The edger has a wide cluster on the left side and then a two saw shifting cluster that will shift just to the right hand side of the gang cluster to afford the operator some other variations. The edger has three saws and the centre is the fixed saw. When a two board solution is required, the "buried saw" shifts into the "0" position and the "0" saw becomes the centre saw. The outfeed for the edger has a 42" wide belt behind the gang. The tailer behind the edger has powered overhead press rolls and the lower section has dead rolls that mesh together for narrow boards, then set wider when wider boards are fed. (One Set). When a two board solution is used, another set of rolls shift into position.

The infeed has joystick controlled jump chains on each side (3 strands). When the length is 8ft or 10ft, the first two rise to position the board or cant on one side of the machine or another. When the

board or cant is longer, the #1 or #3 chain jump and do the same thing. There are two sets of cant and board stops on each transfer, plus a pneumatic cant and flitch turner located on the transfer between the stops.

Senior Project Manager at A&E, Rainer Ansoerge, tells us what the job entailed from their point of view: "A&E provided the control system for two sawing centres with their own designated Allen Bradley Compact Logix Programmable Logic Controller (Ethernet) with servo motion control. The system interfaces via Ethernet to A&E Networks using Allen Bradley Compact Logix PLC Ethernet platform to communicate to the Delta axes motion controls. All PLC hardware is manufactured by Allen Bradley Ltd.

The PLC was delivered factory prewired to fused terminals in a lockable dustproof enclosure and includes power supplies, PLC Processor and all necessary I/O (Inputs/Outputs) modules to control the functionality of the Setworks."



Riley Smith, Sales Manager, TS Manufacturing, had the following to say following project completion:

"We needed A&E to make the PLC controls and all console boxes that interacted with or ran the edger."

"We partner with A&E in the US because of their understand-

ing of the American lumber industry, and their ability to effect sound electronics programming, software and support in a mill environment." "The Millville Edger is up and running, and that's what we care about. We're glad to have a partner we don't have to worry about to help us in important projects".



## 3 AUTOMATION & ELECTRONICS & WINDSOR

### A SHARED PERSPECTIVE

A story from: Mr. Keith Robertson – Business Manager -Timber Section - Windsor Group

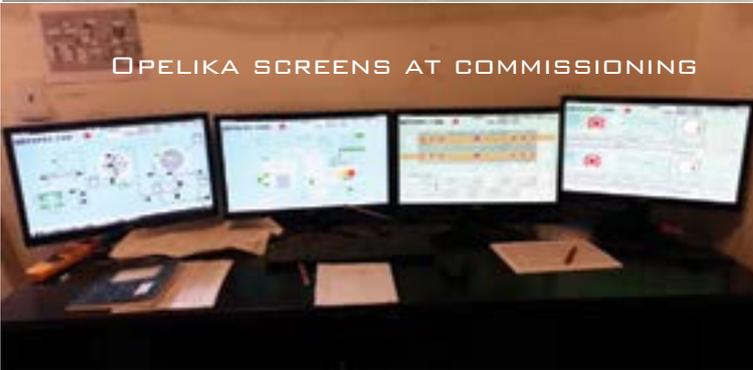
"This year has proved to be one of the busiest on record for both A&E & Windsor commissioning our Dryspec and DryTrack Echo systems on our kiln projects". "During this period, we have successfully commissioned eight more CDK systems and four more batch kiln systems in New Zealand and in the USA". "The months ahead will continue to be busy with more CDK and batch kilns". "Our kiln work order book continues to be healthy with projects stretching well into 2016 and all having controls software and hardware input from A&E". "Once again the service and support from A&E has been excellent and as always is much appreciated."



# 4 Other Kiln Projects

From Alex Trapski - A&E Project Engineer:  
 Together with the Windsor Group, we have recently completed the following Continuous Drying Kilns (CDK) projects:

- West Fraser Opelika (Alabama, USA) - See attached pics
- Weyerhaeuser Philadelphia (Mississippi, USA)
- Westervelt Lumber (Alabama, USA) Being commissioned right now by Alex Trapski.
- Kiwi Lumber Masterton (NZ) (2x Batch Kilns to CDK Conversion)



# 5 SLAVE LAKE ALBERTA, CANADA

## Project Description:

Vanderwell Contractors in Slave Lake Alberta Canada , Scanner and Optimizer supplied & commissioned by A&E USA working in tandem with Canadian Integrator Okanagan Automation who supplied and installed the controls.

The new system replaced a Inovec Yieldmaster Networks and Scanner. The Mill predominantly cuts Canadian Spruce and Pine. The new upgrade involved working with local Integrator Okanagan Automation who provided new control consoles, HMI and Allen Bradley Control-Logix PLC combined with Delta servo motion control for the positioning of the knees and Slabber. A&E USA provided the Optimization

Software for the Carriage log breakdown & priority based product solutions and production reports via an SQL database. The ScanMeg CV6 Scanners provide a profile every 10 inches and lineal profile every inch. The full Controls upgrade was carried out in one week followed by Scanner setup, calibration, tuning and training over the following week.

This is the second installation in Canada working in conjunction with Okanagan Automation which has lead to a successful collaboration of product integration combined with local support. A&E also provides software updates and online support via the local broadband site network. Mark Obst from Okanagan Automation Canada had the following to say regarding the project: "Slave Lake required a new networks and scanners to replace an old one". "This is a combination that works well for us, we essentially provided the hardware in the form of proprietary software, expertise and programming".

"We have partnered with A&E once previously because of their knowledge of the lumber industry in our part of the world, and their ability & history involving sound electronics programming, software and support in a mill environment."

"This was a project where timing was the essence and A&E had to not only perform to a tight schedule but also to ensure that the mill was up & running to full production with a minimum of fuss.



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## KIWI LUMBER PUTARURU, NEW ZEALAND

### Project Description:

Second hand Gang Edger (from the USA) commissioned in conjunction with USNR at Kiwi Lumber in Putaruru NZ. Automation and Electronics (A&E) provided new networks, PLC controls, EdgerView™ operator interface and motor control centre upgrade. Commissioned by Rainer Ansoerge, Project Engineer from A&E.



Blair Muter, from Kiwi Lumber, had the following to say following the completed project:

“The project entailed automation and re-commissioning of optimised combination edger at our site in Putaruru.”

“The major contributing factors in choosing A&E in this instance were price and size of the supplier – i.e. multiple programmers available for support.”

Blair also had this to say once the project was completed: “Outstanding work post commissioning.” “The completed system is working well and we are happy with the quality of work completed.”



# 7

## A&E NZ AWARD WINNERS

### VISION AND TEAMWORK PAY DIVIDENDS:

Recently, the team at Automation and Electronics (A&E) New Zealand won the prestigious 2015 “Innovation in Export” award at the recent Export NZ, Bay of Plenty (BOP) Awards. This is a second award for A&E, having won the “Exporter of the Year” back in 2005.

Brian Smith, Managing Director of A&E said that: ‘It’s been a tough time for us since we decided to place a high level of our efforts in capturing the overseas market, but now it’s paying off’. Brian further states that “A&E’s success is due largely to the dedication and innovation of our close knit team both here and overseas”.



## NEW STAFF MEMBERS NEW ZEALAND

### A&E NZ WELCOMES



**Project Engineer  
Rajendran (Raj) Muthusamy**  
**A personal profile:**

I am Rajendran (Raj) Muthusamy and I am originally from Ipoh in Malaysia. After training in electrical & electronic engineering in Singapore and USA I have worked all around the world doing commissioning for architectural glass coating machines and

metalizing coatings machines on plastic film for Applied Materials Ltd (USA).

I have also worked doing automated mooring systems for container, ferry and bulk carriers in South Africa, Western Australia and Lebanon.

I started with Automation & Electronics NZ in June 2015 as a controls engineer and have so far travelled to South Australia to assist with commissioning controls on a mill rebuild and am currently working on an edger and horizontal networks system. In my spare time I enjoy playing tennis, watching sports (tennis, Formula 1 and football) and watching movies.



**Project Engineer  
Chris Paul**  
**A personal profile:**

My name is Chris Paul and I was born in a small town called Margate on the east coast of South Africa. I trained and qualified as an electrician in South Africa where I worked on commercial and industrial architectural glass coating machines.

I then moved over to the UK where I was involved in maintenance and installations on many industrial plants.

After moving to Christchurch 8 years ago, I was a project manager for multiple saw mill automation upgrades and various other automation projects including agricultural and irrigation projects.

I started at Automation & Electronics NZ as a controls engineer in July and am at present working on a new kiln control system and a mesh machine upgrade.

I love mountain biking, surfing, motocross and generally being outdoors and keeping fit. For me, nothing beats spending time with family and friends.



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