Note Advisory committee meeting 11-12-20

Automation, Robotics, & Mechatronics (A.R.M.) Advisory scheduled on November 12th at 7:00am- 9:00 am

Members in attendance:

* William O’Neil – Chaffey College Program Faculty
* Markazan Romero – Chaffey College Program Faculty
* Dr. Yolanda Friday – Chaffey College Program Dean
* Andy Page - Mountain Desert Career Pathways (MDCP)
* Carlee Hongskula - GAF
* Carrie O'Neal - Curriculum Specialist/K12 SWP Pathway Coordinator MDCP
* Matt Stewart - STEAM Teacher at Orangewood High School Redlands Unified School District/CRYROP
* Amy Schulz - Dean of Business & Technology at Sierra College
* Yvonne Reid - InTech Partnerships Liaison, Chaffey College.
* Jeff Dunagan - General Atomics ASI - Program Manager
* Sherri Osterberg - Victorville - Automation and Robotics Programming CTE teacher at Lakeview Leadership Academy
* Jeff Frunk - Sam's Club Fulfillment Center in Perris,CA
* Steve Tyrrell - Maintenance Manager for Mitsubishi Cement Corporation
* Sandra Sisco - Chaffey College InTech Center
* Viet Do - operations manager & maintenance manager for Nestle Waters.
* Eduardo Cruz -- Senior HR Manager for TC Transcontinental Packaging in Ontario, CA
* Emerson Hernandez, Sr. Talent Acquisition Recruiter for Fabfitfun.
* Ryan Niesen - San Bernardino Workforce Development Department
* Sam Barrow - Talent Acquisition Maintenance - Niagara Water
* Frank Castanos - Victor Valley College. High Desert Training Center.
* Marco Torres – Fontana USD
* Laura Resio - Amazon RME
* Patrick McCoy - National Sales Manager, Paulson Mfg. Corp.

Meeting summary.

Questions:

1. How have your workforce need changed in the past 5 years

More technical operators, additional robotics equipment, Hands on experience. Basic electrical and mechanical skills needed.

1. When we say Electrical and Mechanical are they the same person. What are you looking for knowledge skills when they complete.
	1. Trouble shoot electrical and mechanical issues.
	2. agree with that! Laura Resio Amazon - A lot of our roles include robotics and mechanical, electrical, etc. Most students have 1 but not all. 2+ years of experience with automated conveyor systems and controls2+ years of experience in the repair of material handling equipment2+ years of experience conducting predictive and preventative maintenance procedures1+ years of metal and wood fabrication1+ years of blueprint and electrical schematic reading1+ year of knowledge with electrical and electronic principlesProcedure based maintenance experience (PM)Ability to use and interpret statistical equipment run metrics such as OEE/Up Time to prioritize accordingly
	3. Must prove skills.
	4. Ladder logic, AC/DC electrical hydraulics and Pneumatics, print reading.
	5. Being able to use a multi meter.
	6. Safety – to wire and use a meter, know what to look for Voltage level. Arc flash, LOTO
	7. The one thing I would like to see is better critical thinking skills.
	8. Soft skill learn to ask or questions critical thinking.
	9. They should know what the career they are getting in to. (ethics also).
	10. VFD, motors, Sensors. Programming and wiring
2. PLC Programmable Logic Controllers
	1. Reading logic and troubleshooting,
	2. Force-on and off.
	3. Read and write logic.
	4. Analog systems, how it works and troubleshooting.
3. Certifications / degree, what do you value most?
	1. The tech (student) is more valued in their own advancement. 1 Degree.
	2. Starting to look for certifications and degree (Makes applicant stand out)
	3. Certifications only
4. Does it matter that you student come from high school or college level.
	1. Employers don’t care if someone with skills come from High School (They don’t need college).
5. What is the colleges’ number one thing they need to do?
	1. Hands on skills
	2. Willing to modify courses to meet the needs by listening to input
	3. Apprenticeship Are good.
	4. More hands-on mechanical
6. AI, in to Mechatronics
	1. 5 years before AI
	2. Will always need general electrical and mechanical Even with AI.
	3. Some companies already using AI

School response to meet the needs.

Getting back in person providing hands-on training and skills.

Need to add mechanical, electrical equipment and robotics. This is key to meeting the needs of hands-on skills.

In attendance:

Andy Page : Good Morning! Andy Page, Mountain Desert Career Pathways (MDCP)

 From Carlee Hongskula - GAF : Good Morning Everyone!

 From Markazan Romero : Good morning everyone!

 From Marco Torres : Good Morning!

 From Carrie O'Neal : Carrie O'Neal, Curriculum Specialist/K12 SWP Pathway Coordinator MDCP

 From Matt Stewart : Matt Stewart STEAM Teacher at Orangewood High School Redlands Unified School District/CRYROP

 From Yolanda Friday : Thank you!!!!

 From Amy Schulz : Good Morning--I'm Amy Schulz, Dean of Business & Technology at Sierra College. Thank you for welcoming others throughout the state to learn about this exciting work.

 From Yvonne Reid : Good morning everyone! Yvonne Reid, InTech Partnerships Liaison, Chaffey College.

 From Jeffrey Dunagan : Good morning everyone! Jeff Dunagan from General Atomics ASI - Program Manager

 From Sherri Osterberg : Sherri Osterberg - Victorville - Automation and Robotics Programming CTE teacher at Lakeview Leadership Academy

 From William ONeil : Good Morning Bill O'Neil Instructor with Chaffey College, Industrial Electrical Technology / Mechatronics.

 From Jeff Frunk : Good morning everyone! Jeff Frunk Sam's Club Fulfillment Center in Perris,CA

 From Steve Tyrrell : Thank you educators for joining the manufacturing time schedule.

 From Debbie Smith : To all of our business folks, can you please introduce yourself to Mark Taylor the host from BBraun via the chat box so that he knows who is on the line as he leads the business discussion.

 From Steve Tyrrell : Steve Tyrrell - Maintenance Manager for Mitsubishi Cement Corporation

 From Sandra Sisco - Chaffey College InTech Center : Thank you for facilitating, Mark!

 From Viet : Viet Do - operations manager & maintenance manager for Nestle Waters.

 From cruze : Eduardo Cruz -- Senior HR Manager for TC Transcontinental Packaging in Ontario, CA

 From emersonhernandez : Good morning everyone! Emerson Hernandez, Sr. Talent Acquisition Recruiter for Fabfitfun.

 From Ryan Niesen : ryan.niesen@wdd.wdd.sbcounty.gov 909-289-6288 San Bernardino Workforce Development Department

 From sam barrow : Good morning! Sam Barrow - Talent Acquisition Maintenance - Niagara Water - 909-456-6482

 From Frank Castaños : Good morning. Frank Castanos. Victor Valley College. High Desert Training Center.

 From Marco Torres : Fontana

 From Marco Torres : USD

 From Laura Resio - Amazon RME : Hi! This is Laura with Amazon :)

 From Melissa Howlett : Good Morning Everyone! if you have any questions please feel free to give me a call, I look forward to speaking with you and talking about all the opportunities we have here at San Bernardino County Workforce Development

 From Patrick McCoy - Paulson Mfg. : Patrick McCoy, National Sales Manager, Paulson Mfg. Corp.

 From Rosalinda Rivas : Joel Beckwith, Walmart Colton DC, t is about to log on and join us!