BUENAVENTURA RAS/IAS CHAPTER

Servo Drive-Motor Considerations, Technologies and Future Insight for Robotics Applications

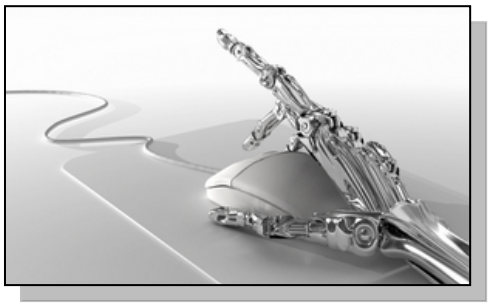
By Karl Meier, Executive with *ADVANCED* Motion Controls

Wed Dec 2, 2015 at 6:30 pm

101 Swenson Building on the CLU campus

Meetings are free and open to the public

RSVP at this link http://servodrive4robotics.eventbrite.com



There is a robotics revolution happening right now and robots today rely on more than just being programmed for navigation, object detection and avoidance or other on-the-fly intelligent operations. Autonomous, remotely controlled or in-place robots require an array of enabling hardware that is also critical to overall system performance. This presentation focuses on motion control technologies, specifically servo drives, and how this affects robot designs. Also, discussed will be insight to future designs that will allow for even more compact robotic systems.

Robots have long been the desire of mankind to help in conducting work deemed unfit or dangerous. Without a complete understanding of motion control and how it affects robotic designs, true performance is rarely realized. As a core 'enabling technology', servo driven motion control can maximize how robots provide that assistance. So many major robotics platforms are currently active around the world with many more projects in the works. An educational insight to what these robotic companies are doing, what they know about motion control technology and future deliverables will be the basis for this knowledge transfer.

Our speaker, Karl Meier, is a key executive team member with *ADVANCED* Motion Controls for nearly 15 years and leads marketing and business development expansion efforts and continues to provide strategic direction for engineering and product development. His extensive product and industry knowledge comes from 30+ years of experience, including work in the Space Shuttle program as an officer in the U.S.A.F. He has assisted many companies over the years with automation needs and continues to interface with many industry leading robotics companies and research institutions. His formulation of a 'University Outreach' program has assisted hundreds of projects from top educational institutions like

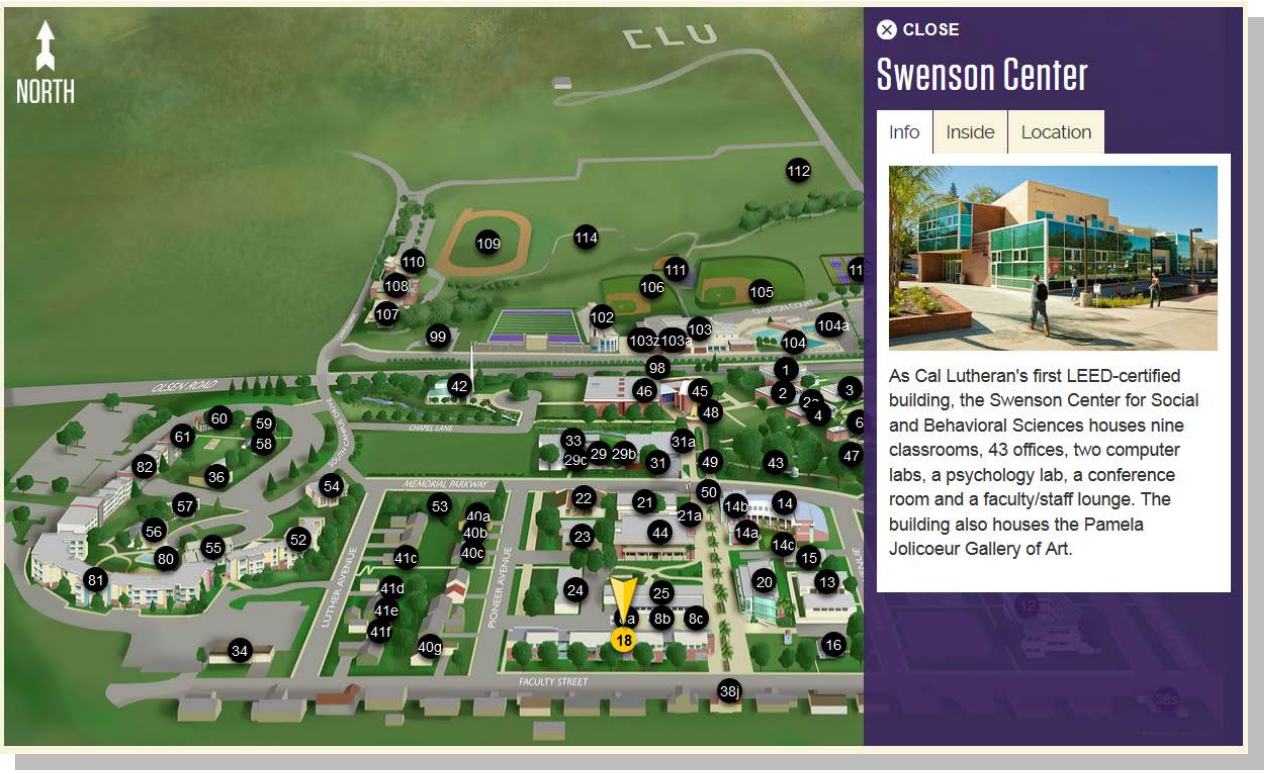
Carnegie-Mellon's 'Red Team', Ohio State University's 'Birt', University of Pennsylvania's 'X-RHex' and many, many others. Karl's education includes a BSEEE '83, NDSU, Fargo, ND and an MSCS '87, WCU, Santa Barbara (extension campus), CA. He has also spent time as a graduate assistant and conducted personal research developing algorithms for artificially intelligent identification systems using predictive pattern recognition techniques. He is a senior member of IEEE and member of AUVSI and selected as a member of RoboBusiness' Advisory Council. He is the Founding Chairman of the RAS chapter in IEEE's Region 6 Buenaventura Section. He has written several technical articles and given presentations at conferences on a variety of technical subjects.

Location: California Lutheran University
101 Swenson Building,
141 Faculty Street
Thousand Oaks, CA

Pizza/networking starts at 6:30 pm
Talk starts at 7:00 pm

Our sponsors
California Lutheran University
IEEE Buenaventura Section

RSVP: at this link (free event)



Directions from Ventura:
Take the Ventura Freeway 101 South
Take Lynn Road Exit, turn left, drive 2.9 miles
Lynn Road turns into Olsen Road, drive .9 miles
Turn right onto Mountclef Boulevard - the University is on the right
Turn Right onto Faculty Street
Park on Faculty Street or adjacent streets
Visitors may park on the streets after 7 pm without a permit.
Important: do not park in the spots marked “Homeowner Parking only”
Before 7 pm, we recommend to park in the G lot on the southwest corner of Olsen and MountClef and walk to the Swenson building

Directions from Los Angeles:
Take the Ventura Freeway 101 North
Take Lynn Road Exit, turn right, drive 2.9 miles
Lynn Road turns into Olsen Road, drive .9 miles
Turn right onto Mountclef Boulevard - the University is on the right
Turn Right onto Faculty Street
Park on Faculty Street or adjacent streets
Parking on the street is open after 7 pm
Prior to 7 pm, Respect parking signs and do not park in faculty spots
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CLU STREET PARKING PERMIT

IEEE-RAS-IA MONTHLY MEETING

THIS VEHICLE IS AUTHORIZED TO PARK ON ANY CLU STREET BEFORE 7 PM ON ANY WEDNESDAY EVENING OF THE MONTH IN CONNECTION WITH THE IEEE-ROBOTICS AUTOMATION/INDUSTRIAL APPLICATIONS MEETING ON THE CLU CAMPUS.

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CURRENT DATE: _____

Fred Miller
Director of Campus Public Safety
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