

## SEMINAR AGENDA

1. Lean Robotics
  - a. *The 21<sup>st</sup> century is upon us and the demographic shifts of the past 80 years is presenting challenges to large and small manufacturers alike. This seminar discusses these challenges and the innovative methods developed in Lean Robotics used to combat them.*
2. Collaborative Robots
  - a. *It's the year 2018 and CoBots have taken over the world! Well not exactly, but they are taking over the manufacturing floor. This seminar will show the benefits of using Collaborative Robots and why it is that in just 5 short years, CoBots have gone from zero installs to 31,000.*
3. Industrial Robots
  - a. *What makes an Industrial Robot different from its cousin the Collaborative Robot? Are they really that much more difficult to program and implement? Why would you use one and not the other? This seminar will explore these differences and seek to answer these questions and more.*
4. Mobile Robots
  - a. *You've seen them at Amazon and other large warehousing companies, but how difficult are they to implement? Does an organization have to be "big" to derive benefit from implementing Mobile Robots? This seminar will explore Mobile Robot technology and how they are being used today.*
5. Motion Control Fundamentals
  - a. *Ever wonder why we still use step motors instead of servo motors, and vis-a-vi? Or when to use a lead screw instead of a ball screw, or a belt drive instead of a linear motor? If yes, this 90 minute seminar is for you.*
6. Educational Robots
  - a. *Have an interest in supporting STEM Education at your K-12 school? This 1 hour seminar will demonstrate how cost effective new robot technology is bridging the gap between industry and academia, and making it possible for both primary and secondary educational institutions to add robotics to their curriculum.*