ACM Progressive Manufacturing Team Presents a Technology Webinar

Automation and Robotics & I4.0 Emerging Technologies

WEBINAR AGENDA

▪ Introductory Comments – Paul Murphy
▪ Introduction of Presenters – Eric Schneider
▪ Automation & Robotics
  ▪ Presenter: Sam Greenbank – CCAT AMC
▪ Industry 4.0 Emerging Technologies
  ▪ Presenter: Nasir Mannan – CCAT AMC
▪ Q&A Session
▪ Open Discussion
▪ Closing Remarks and Updates – Paul Murphy

March 18, 2021 10:45am
CCAT’s Advanced Technology Center Presents a Technology Seminar on Automation & Robotics

Your Presenter

Samuel Greenbank
Manufacturing Applications Engineer II
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www.ccat.us
Why Automate?

• Goal is not to replace humans
• Skilled labor shortages
• Automate work that humans can’t do, shouldn’t do, or won’t do
Industrial Robotic Trends

- Flexible (soft) vs Fixed (hard) automation
- Mobile
- Collaborative
- Fenceless
- Faster, lighter, stronger, cheaper
- Ease of use
Material Handling with Kawasaki
Thu. April 8th @12:00-1:00

Collaborative Robots with Scott Technology/RobotWorx
Thu. May 15th @ 12:00 - 1:00 PM

Robotic Welding with ArcRite
Thu. June 10th @ 12:00–1:00 AM

Mobile Robots/AGVs with Transbotic
Thu. July 8th @ 12:00 - 1:00 PM

Addition topic to be scheduled:
• Robot Safety
• Robot and Computer vision
• Material removal with Robots
• Painting/dispensing Robots
• Offline Programming and Simulation

Register at ccat.us/workshops
Meet the CCAT Robots
Questions for Sam??

Thank you!

For more information about CCAT or how you can participate in a demonstration project, please contact:

Sam Greenbank | sgreenbank@ccat.us
CCAT’s Advanced Technology Center Presents a Technology Seminar on Industry 4.0 Programs & the New England Regional Defense Industry Collaboration (NERDIC)

Your Presenter

Nasir Mannan
Principal Engineer, Advanced Design, Automation & Metrology Lab
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INDUSTRY 4.0 TECHNOLOGIES
INDUSTRY 4.0 – FOCUS

Introductory Workshops, Demonstration Projects and SMM Technology Adoption Support

1. Industrial Internet of Things
2. Model Based Definition
3. Additive Manufacturing
4. Automation
INDUSTRY 4.0 – WWW.CCAT.US/EVENTS

Upcoming Events

Advanced Production Scheduling & Planning I: What is it and how can it impact your operations?
March 16 @ 2:00 pm - 2:30 pm

Introduction to Using Metal Additive/3D Printing for New Parts and Critical Repairs
March 18 @ 12:00 pm - 1:00 pm

Advanced Production Scheduling & Planning II: Live Demonstration & Common Problems that APS Resolves
March 23 @ 2:00 pm - 3:00 pm

RFID and RTLS as Enabling Technologies for Industry 4.0
March 25 @ 12:00 pm - 1:00 pm

Tour Your Advanced Technology Centers
March 30 @ 9:00 am - 9:45 am

View All Events

Find out more
Money for Manufacturing
Three Grants You Can’t Ignore

These manufacturing assistance programs are specifically aimed at helping Connecticut Manufacturers keep pace with state-of-the-art product development and manufacturing technology. To help accelerate the growth of your company tomorrow, apply for any of these matching grants today!

1. **IoT Integration Voucher Program (IVP)**
   - $20,000 to assist with the implementation of IoT solutions on your manufacturing floor.
   - Administered on a first-come first-served basis.
   - Program details can be found online at [https://ctivp.ccat.us/](https://ctivp.ccat.us/)

2. **Manufacturing Innovation Fund Voucher Program (MVP)**
   - $49,000 to conduct a project aimed at improving your manufacturing productivity, efficiency and competitiveness.
   - Administered on a first-come first-served basis.
   - Program details can be found online at [https://ctmvp.ccat.us/](https://ctmvp.ccat.us/)

3. **Additive Manufacturing Adoption Program (AMAP)**
   - $100,000 to help infuse additive manufacturing technologies into your production environment.
   - The window for accepting applications will run from April 1 to May 31, 2021.
   - Program details can be found online at [https://www.ccat.us/amap/](https://www.ccat.us/amap/)

See all of these technologies on display by visiting CCAT’s Advanced Manufacturing Center in East Hartford, CT. Call 860-610-0478 to make an appointment or visit us online at [https://www.ccat.us](https://www.ccat.us)
NERDIC – INTRODUCTORY WORKSHOPS

**April 2021**
- 6 April: Using AI Technology to Crosstrain & Upskill Employees to Support Industry 4.0 Initiatives and Reduce Supply Chain Risk

**May 2021**
- 4 May: Generative Design – An Introduction in Design Optimization to Fully Realize Additive Manufacturing Benefits
- 11 May: Introduction to 3D Printing/Additive Manufacturing to Assist Traditional Manufacturing
- 18 May: Benchmarking 3D Printed Parts manufactured with the Desktop Metal Studio System for Defense

**June 2021**
- 8 June: Model Based Definition – What is it and how does it help your business
- 15 June: Machine Tool Probing for Industry 4.0 – What is it and how does it help your manufacturing process?
- 25 May: Powder Bed Fusion (PBF) and Bound Metal Deposition (BMD) Additive Manufacturing Processes

**July 2021**
- 15 June:...
NERDIC – TECHNOLOGY DEMONSTRATIONS

22
June
2021
Model Based Definition Technology Demonstration

20
July
2021
AI Technology Demonstration

27
July
2021
Augmented Reality Technology Demonstration

13
July
2021
Machine Tool Probing Technology Demonstration

10
Aug
2021
Generative Design + Additive Manufacturing Technology Demonstration

17
Aug
2021
Additive Manufacturing Technology Demonstration

31
Aug
2021
Additive Manufacturing Technology Demonstration
Questions for Nasir??

Thank you!

For more information about CCAT or how you can participate in a demonstration project, please contact:

Nasir Mannan | nmannan@ccat.us
On behalf of the ACM Progressive Manufacturing Team, we thank you for participating.

“The most dangerous kind of waste is the waste we do not recognize.” – Shigeo Shingo

For questions contact PAUL MURPHY
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