Innovative Manufacturing

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Description

Since the first 3-D "printer" produced its first prototype in the late 1980's, the technology has grown exponentially in breadth and volume. Better known as "additive manufacturing", it now encompasses 3D scanning, 3D printing and product design. With innumerable applications in many industries, it integrates cloud computing, high end image processing, product design, and business sectors from archeological reconstructions to gene therapies. Learn about the newest technologies and how they are being taught in technology programs from industry and educator experts.

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Webinar Resources

The webinar recording, slides, and handout will be available following the webinar at www.matecnetworks.org, Keyword Search: "Webinar Innovative Manufacturing".

Additional Resources

FLATE ET Degree Resources:
- http://fl-ate.org/projects/Stackable-Credentials-Aligned-Certificates.html
- http://madeinflorida.org/engineering-technology-degree/e-t-overview/

St. Petersburg College (St. Petersburg, FL) ET Degree Website:
http://www.spcollege.edu/courses/program/ENG-AS
- Program director: Bradley Jenkins: jenkinsb@spcollege.edu

Florida Department of Education Engineering Technology Degree Curriculum Frameworks:
http://www.fldoe.org/workforce/dwdframe/1213/mfg/rtf/0615000001.rtf

Case Studies:

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-Clemson-Engineering.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-MIT.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-Huddersfield.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-MountainViewHighSchool.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-Norwich.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-PennState.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-RoyalInst.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-Stellenbosch.pdf

http://www.ems-usa.com/Success_spotlight/Education/CaseStudy-SunderlandU.pdf

Curriculum & Exercises – 3D Printing:

http://www.ems-usa.com/Success_spotlight/Education/CurriculumSummary.pdf

http://www.ems-usa.com/Success_spotlight/Education/DesignExercise1-Handouts-KeyChain.pdf

http://www.ems-usa.com/Success_spotlight/Education/DesignExercise2-Handouts-CommemorativeFrame.pdf

http://www.ems-usa.com/Success_spotlight/Education/DesignExercise3-Handouts-BathroomOrganizer.pdf

Grant Info:

http://www.ems-usa.com/Success_spotlight/Education/GrantWritingTutorial.pdf

http://www.ems-usa.com/Success_spotlight/Education/HowToFindAndWinGrantFunds.pdf