

VIRTUAL PUBLIC SEMINAR ON

GARAGE BASED MANUFACTURING IN THE CARIBBEAN

VENUE: ZOOM PLATFORM

SATURDAY 9th APRIL 2022



UWI
ST. AUGUSTINE
CAMPUS

Department of Mechanical and
Manufacturing Engineering
The University of the West Indies
St. Augustine, Trinidad.

TARGET AUDIENCE

- ✓ Mechanical/Manufacturing Engineers
- ✓ Supervisors/Managers
- ✓ Manufacturing Practitioners
- ✓ Students/Engineering Graduates

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RESOURCE PERSON

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ABOUT THIS SEMINAR

The manufacturing sector is typically singled out as an important, key player for contending with diversification of the economy in the Caribbean. While large manufacturing organizations as well as small and medium enterprises must all contribute to the addressing of prominent issues which include meeting consumer demands autonomously in addition to providing high quality products, there exists the option of **Garage Based Manufacturing (GBM)**, a specialty area which compliments such efforts.

GBM refers to small scale manufacturing leveraging the application of automated machinery such as open-source 3D printers and other CNC machines. It requires minimum capital investment while having great potential expanding.

This public seminar is an exciting opportunity to be part of the discussion on **GBM** and its applications in the Caribbean. There will also be case study presentations for future implementation for personalized 3D printing of artifacts and a live demonstration on an open-source 3D printer.

SPEAKER'S BACKGROUND

Professor Boppana V. Chowdary obtained his Ph.D. from the Indian Institute of Technology Delhi and Post-doctoral research from the University of Groningen, The Netherlands. He has 33 years of teaching and research experience including supervision of four MPhil and four Ph.D. projects at the UWI. Prof. Chowdary has organized various seminars and technical symposiums in Mechanical and Manufacturing Engineering areas in the past. Prof. Chowdary has visited several USA, UK and European Universities on various occasions.

Prof. Chowdary has expertise in several software packages such as SolidWorks, Mastercam, Geomagic Studio and Geomagic Qualify Software, Insight, ideaMaker as well as hands-on experience with Rapid Prototyping, CNC Mill, Lathe, Router, and 3D-digitisation equipment. In addition, his expertise lies in the areas of Additive Manufacturing, CAD/CAM, Computer Integrated Manufacturing (CIM), Product Design and Development, Virtual Manufacturing Systems, Production Technology, and Lean Manufacturing.

PROGRAM SCHEDULE

9.00-9.50 am	Registration and Opening Remarks
9.50-10.00 am	Developments in 3D Printing/Fused Filament Fabrication (FFF) Prof. B. Chowdary
10.00-10.30 am	Case Study 1
10.30-10.55 am	Case Study 2
10.55-11.00 am	Break
11.00-11.35 am	Live Demonstration on an Open-Source 3D Printer
11.35-11.55 am	Question & Answer Session
11.55-12.00 noon	Closing Remarks