

2021 HTEC Virtual CNC Educator Conference

PDT

Monday July 19th, 2021

7:00 AM

7:00 AM PDT - 7:30 AM PDT

Welcome Kick-Off, Opening Remarks & Agenda

Alex Barnhill, HTEC Council President, Nash Community College

7:15 AM

7:30 AM

7:30 AM PDT - 8:15AM PDT

The Struggles of What to Teach

Mark Terryberry, Haas Automation

7:45 AM

8:00 AM

8:15 AM

BREAK

8:30 AM

8:30 AM PDT - 9:00 AM PDT

Education Updates from Haas Automation

Peter Zierhut, Haas Automation

8:45 AM

9:00 AM

9:00 AM PDT - 9:45 AM PDT

**CNC Macro Programming:
A Practical Approach**

Trian Georgeou, CPSU

9:15 AM

9:00 AM PDT - 9:45 AM PDT

**How to Build a Successful
STEM/Adv. Mfg. Program**

Aaron Hopmayer, PBHS

9:30 AM

9:00 AM PDT - 9:45 AM PDT

**Geometric Dimensioning &
Tolerancing**

Brian Wickham, HVCC

9:45 AM

BREAK

10:00 AM

10:00 AM PDT - 10:45 AM PDT

**Simple is Good: Proven CNC
Milling Projects for Entry-
Level Machining Student**

Jim Weber, CHS

10:15 AM

10:00 AM PDT - 10:45 AM PDT

NIMS Credentialing Simplified

Brian Aiken & Japeth Gilreath

10:30 AM

10:00 AM PDT - 10:45 AM PDT

**Undergraduate and Graduate
Courses & Graduate Research**

Eric McKell, BYU

10:45 AM

BREAK

11:00 AM

11:00 AM PDT - 12:00 PM PDT

**Train the Trainer Pathway for Educators New
to CAM+CNC**

Autodesk Technical Training Workshop

11:15 AM

11:00 AM PDT - 12:00 PM PDT

**Verisurf Supports Industry Customers by
Supporting Educators: How to Use Verisurf
Software to Inspect Parts with Any CMM**

Verisurf Technical Training Workshop

11:30 AM

11:45 AM

2021 HTEC Virtual CNC Educator Conference

PDT

Tuesday July 20th, 2021

7:00 AM

7:15 AM

7:30 AM

7:00 AM PDT - 7:45 AM PDT

Upskilling the American Workforce by Nick Pinchuk

Nick Pinchuk, Snap-on Incorporated

7:45 AM

BREAK

8:00 AM

8:00 AM PDT - 8:45 AM PDT

Integrating High School Students into a Technical College Program
Rich Shouse & Kidia Tyler, GTC

8:00 AM PDT - 8:45 AM PDT

Multi-site Collaborative Manufacturing Projects
Matt Erbach, SHS

8:00 AM PDT - 8:45 AM PDT

Smart Manufacturing at RPI
Sam Chiappone, RPI

8:15 AM

8:30 AM

8:45 AM

BREAK

9:00 AM

9:00 AM PDT

Preliminary Business Meeting:

**2022 Council Nominations & 2023 HTEC Hosting Bids
(ALL HTEC EDUCATORS ENCOURAGED TO ATTEND)**

Alex Barnhill, HTEC Council President, NCC

9:15 AM

9:30 AM

9:45 AM

BREAK

10:00 AM

10:00 AM PDT - 10:45 AM PDT

Probing for GD&T
Dan Waldorf, CPSU

10:00 AM PDT - 10:45 AM PDT

Bridging the Gap from 2D to 3D Design with Laser Cutting
Patrick Reiser, PBHS

10:00 AM PDT - 10:45 AM PDT

Fast Tracking CNC Education
David Tuttle, PTHS

10:15 AM

10:30 AM

10:45 AM

BREAK

11:00 AM

11:00 AM PDT - 11:30 AM PDT

The Digital Thread: What you and your Students Can Expect to See in Machining Operations
Sandvik Technical Training Workshop

11:00 AM PDT - 11:30 AM PDT

Building a Healthy Manufacturing Trade Workforce
Project MFG Technical Training Workshop

11:15 AM

11:30 AM

11:30 AM PDT - 12:00 PM PDT

Rigorous Teaching Method of G-Code-to-CAM-to-Inspection
Immerse 2 Learn Technical Training Workshop

11:30 AM PDT - 12:00 PM PDT

Enabling Automation Education with Forge/OS
Ready Robotics Technical Training Workshop

11:45 AM

2021 HTEC Virtual CNC Educator Conference

PDT

Wednesday July 21st, 2021

7:00 AM

7:15 AM

7:30 AM

7:00 AM PDT - 7:45 AM PDT

Addressing Low Enrollment and Program Justification

Chelle Travis, SkillsUSA

7:45 AM

BREAK

8:00 AM

8:15 AM

8:30 AM

8:00 AM PDT - 8:45 AM PDT

Americas Cutting Edge (ACE) Machining Training Program

Tony Schmitz, UT

8:00 AM PDT - 8:45 AM PDT

Change the Skilled Trades Mindset for Administrators, Counselors and Parents

Aaron Hopmayer, PBHS

8:45 AM

BREAK

9:00 AM

9:15 AM

9:30 AM

9:00 AM PDT - 9:45 AM PDT

What Should We Teach?

Rick Calvery, LTI

9:00 AM PDT - 9:45 AM PDT

Proving CNC Machining Projects via Prototyping with 3D Printing

Daniel Aktas, PBHS

9:00 AM PDT - 9:45 AM PDT

Mechanical Engineering Design Capstone Projects

Dr. Geetha Chimata & Tim Gussisberg, CU

9:45 AM

BREAK

10:00 AM

10:15 AM

10:30 AM

10:45 AM

10:00 AM PDT - 11:00 AM PDT

Integration of Virtual, Augmented and Mixed Reality in Manufacturing Education

Tooling U-SME Technical Training Workshop

10:00 AM PDT - 11:00 AM PDT

New Features & Resources For Your Classroom

Mastercam Technical Training Workshop

11:00 AM

BREAK

11:15 AM

11:30 AM

11:45 AM

11:15 AM PDT - 12:00 PM PDT

Business Meeting:

2022 Council Election via Poll & 2023 HTEC Host Result

(ALL HTEC EDUCATORS ENCOURAGED TO ATTEND)

Alex Barnhill, HTEC Council President, NCC

2021 HTEC Virtual CNC Educator Conference

On-Demand Webinars

Agenda & Accessing Content
(Access Anytime)

CNC Project Showcase
(Access Anytime)

Tour of Brooklyn Navy Yard and Brooklyn STEAM Center
(Access Anytime)

Tour of Huson Valley Community College, Gene Haas Center for Advanced Manufacturing Skills
(Access Anytime)

PACIFIC
TIME