

# **Alberto A. Flores Jr.**

**Material Science & Smart Manufacturing C.O.E.  
Professor Manufacturing and Machining  
Technologies Divisions**

[alberto.flores@hccs.edu](mailto:alberto.flores@hccs.edu)

713-718-2894

## **Education**

**Stephen F. Austin (High School General Studies)**

Horn Cad Center Mechanical Drafting using AutoCad2002

Tooling U (SME) GD&T Certificates

Gibbs Cam Lathe & MTM Certificate

Mechanical Engineering Tech Course Thompson Education Direct

## **2023-Present CNC Instructor Houston Community College**

Develop and teach Canvas Classes in various Manufacturing college credit courses. Work with students and faculty to achieve learning outcomes.

Maintain shop equipment for all face-to-face shop classes.

## **Experience**

### **2023-Present CNC Instructor Houston Community College**

Develop and teach Canvas Classes in various Manufacturing college credit courses.

Work with students and faculty to achieve learning outcomes.

Maintain shop equipment for all face-to-face shop classes.

### **August2020-December 2023 Manufacturing C.O.E. Division Chair**

Manage department resources to serve our community and students

Work with Dean and faculty to accomplish our department goals and student

outcomes Work with advisory committee to improve curriculum to meet our industry standards Assist with Houston Community College Apprenticeship Program.

Assist with all department and student issues

### **2016-2020 CNC Instructor Houston Community College**

Develop and teach Canvas Classes in various Manufacturing college credit courses.

Work with students and faculty to achieve learning outcomes.

Maintain shop equipment for all face-to-face shop classes.

### **2014-2016 Regional Training Manager, Instructor Hunting Energy Services**

Created and established curriculum for educating and training Hunting machinist

Established and implemented training metrics and training monitoring program to ensure training programs were effective.

Prepared and presented Regional Training Center (RTC) Operations progress reports to the Director of Manufacturing Technology.

Collaborated with divisional senior level management and business units to evaluate training assessments to ensure company training needs were met.

**2007-2014 Senior Machinist, Engineering Associate, Safety Representative Coorstek**

Operated Mazatrol 640 Fusion control and Mazatrol Matrix Control Machines.

Machining Titanium, Magnesium , and plastics.

Ordering and buying tooling and product materials for company machining processes.

Managed, administered and maintained the safety program. Conducted monthly meetings and maintained records for Houston facility.

**1979-1999 Tooling Machinist Baker Oil Tools**

Operated CNC and Manual Machines using multiple types of materials:

CNC Lathe and Milling Center; Mazak Lathe with FANUC Control;

Mori Mill with 15M FANUC Control and point to point programming;

Performed tooling work, fabricating and inspection of shop tooling, gauges, mill fixtures with

tolerances of .0001 to .0002Machined and inspected premium threads including: VAMS;VAM ACES;

and HYDRIL .Served as Safety Committee Team Leader for two years Developed process controls and waste reduction training. Received numerous awards for safety and top production.

Quality at the Source and Statistical Process control training.

Knowledge of inspection procedures and equipment including: Comparator & CMM

**Certifications:**

- Hunting Continuous Improvement and Lean Fundamentals (2015)
- GD&T Certificates Tooling U {2015}
- Gibbs Cam Lathe & MTM Certificate (2007)
- Baker CNC Programming Certificate (1992)
- MSSC Safety Instructor Certification

**HCC:**

- Employee Standard of Conduct (2016)
- Canvas Online Certification (2016)
- Title IX Certification (2018)
- Forklift Training (2016)
- CPR First Aid Training (2018)
- FERPA Training Certification
- Campus Carry Training (2018)