

MUNTATHAR AL-SEIEDI

rmswarp@gmail.com

1065 N Pennsylvania St.

Denver, CO 80203

(720)-655-6447

Employment History:

Aerospace Quality Inspector & Zeiss Calypso CMM Programmer

S&W Precision Machining | Jan. 2025 - Present

- Solely manage the entire Quality Assurance System, ensuring all outgoing hardware strictly adheres to ISO 9001:2015 and AS9100D standards.
- Overseeing final product release, verifying the completion of all manufacturing operations, closing out job travelers, and authorizing shipments with full accountability for zero-defect delivery.
- Head of all Non-Conformance Reporting (NCR), identifying discrepancies, documenting root causes, and managing the disposal of non-conforming material.
- Develop and execute complex inspection programs using Zeiss Calypso, validating high-precision aerospace components against various GD&T standards (ASME Y14.5-1994, 2009, 2018).
- Engineer robust CMM strategies to inspect complex geometries, ensuring repeatability in automated inspection processes.
- Creating First Article Inspection (FAI) reports utilizing HighQA software, creating auto-ballooned prints, and generating comprehensive inspection reports in full compliance with AS9102 Rev C.
- Perform precision manual inspections using height gauges, bore gauges, thread gauges, and dial indicators to verify tight-tolerance features unsuitable for CMM Inspections.

CAM Engineer

AdvancedPCB | Sep. 2024 - Jan. 2025

- Facilitated Design for Manufacturing (DFM) reviews for Tier-1 aerospace and defense clients (including NASA Marshall, Raytheon, Northrop Grumman, & Texas Instruments), identifying design discrepancies to prevent manufacturing failure.
- Engineered PCB panelization strategies and calculated controlled impedance/dielectric requirements, ensuring strict adherence to customer signal integrity specifications.

- Generated and optimized NC program files for CNC drilling, routing, scoring, and beveling machinery, while providing real-time production support to resolve electrical test failures.
- Developed comprehensive manufacturing travelers, verifying material availability, and calculating copper distribution to ensure successful production.

Academic Advising

Community College of Denver | Feb. 2022 - Sep. 2022

- Guided front-office operations in a high-volume academic setting, providing advice on enrollment, registration, and CCD institutional policies.
- Demonstrated exceptional adaptability by single-handedly managing a four-person front desk operation workflow during staffing shortages
- Enabled cross-cultural communication by providing professional Arabic translation and interpretation for prospective and international students.
- Served as a primary academic representative, resolving complex student inquiries and advising on curriculum requirements and registration procedures.

Studio 104C CADD Lab Assistant

Community College of Denver | Sep, 2022 - Dec. 2024

- Re-engineered the physical and digital workflow for FDM and SLA additive manufacturing, resulting in improved throughput and reduced equipment downtime.
- Consulted on 2D and 3D printing projects, providing expert guidance on CAD data optimization, STL file generation, and the fine-tuning of printing parameters for complex geometries.
- Engineered custom laboratory Headphone fixtures using SolidWorks; managed the end-to-end lifecycle from initial CAD design to the production of 10 functional 3D-printed prototypes.
- Lead specialized tutoring groups for SolidWorks and AutoCAD, mentoring students on advanced modeling techniques and practical applications for their engineering coursework, to help the students elevate their proficiency in parametric modeling and technical drafting.
- Facilitated the setup and calibration of CNC routing and laser-cutting systems.

Education:

Associate of Applied Science - Computer-Aided Drafting Design / Mechanical Designer | Community College of Denver | 2023 (GPA: 3.963 - Magna Cum Laude)

Certificate - Engineering graphics SolidWorks | Community College of Denver | 2023

Certificate - Engineering graphics Inventor | Community College of Denver | 2023

Certificate - Scanned Input 3D Modeling | Community College of Denver | 2023

Certificate - CADD Mechanical Designer Basic | Community College of Denver | 2023

Certificate - CADD Mechanical Designer Intermediate | Community College of Denver | 2023

Certificate - CNC Machine Tool Operator | Community College of Denver | 2024

Certificate - Calypso Online Basic Training | Carl Zeiss Industrial Metrology | 2025

Certificate - Inspection Manager Planning 101 | High Quality Automation | 2025

Certificate - GD&T Fundamentals | Engineer Essentials | 2025

Certificate - Advanced GD&T | Engineer Essentials | In progress

Certificate - Lean Six Sigma White Belt | The Council for Six Sigma Certification | 2025

Certificate - Lean Six Sigma Yellow Belt | The Council for Six Sigma Certification | In progress

Certificate - OSHA 10-Hour Safety | Occupational Safety and Health Administration | 2020

Honors, Awards, and Activities:

- President's List Academic Achievement Award, Summer '22, Fall '22, Spring '23, Fall '23, Spring '24, Fall '24, and Spring '25
- Vice President's List Academic Achievement Award, Spring '22
- Ran a SolidWorks tutoring group that helps students with classwork and applications
- Ran an AutoCAD group that helps students with their homework

Skills:

- Zeiss Calypso Programming Probe Toolpath Inspections & CMM Program execution
- HighQA software: Creating auto-ballooned prints & FAI Reports (AS9102 Rev C)
- Comprehension of GD&T standards (ASME Y14.5-1994, 2009, 2018)
- Lean Six Sigma: Industry best practices for elimination of waste
- SolidWorks: Parametric modeling, Finite Element Analysis, Sheet Metal & Welding, Assemblies, and Animation
- Comprehension of G-code toolpaths & Machine tools
- Operating HAAS & Tormach CNC Mill
- AutoCAD: 2D Drafting, TitleBlock design, and creation of production drawings
- Autodesk Inventor: Assemblies, Sheet Metal, and Mold Tools for casting
- Fusion 360: Parametric modeling, Model creation, Milling Toolpath Setup/Programming
- MasterCAM 2024: Milling Toolpaths
- Microsoft Office Suite Products
- Adobe Creative Suite & Rhinoceros 7
- FDM 3D Printing with Ender and Creality machines
- SLA 3D Printing with FormLabs Machine56
- 3D Scanning with Creaform Go!SCAN 20 using VXelements editor

Hobbies and Interests:

- Enjoy collecting foreign currencies
- Visiting museums and researching historical facts and events
- Cooking and grilling at home
- Writing weird poetry
- Bicycle commuting
- Lifting weights

References:

Mark Broyles

Department Chair & Associate Professor, Architectural Technology - Former Manager

(303)-352-6586

Mark.Broyles@ccd.edu

Eddie Lara-Chavez

Academic Advisor - Former Coworker

(303)-319-9928

Eddie.Lara-Chavez@ccd.edu

Dean Bacalzo
CADD Mechanical Professor - Former Professor
(808)-343-2373
dean.bacalzo@ccd.edu

Leonel Madrigal
CADD Mechanical Professor - Former Professor
(931)-249-1187
leonelmadriral@yahoo.com