

# AUGUSTIN CORTEZ



## INDUSTRIAL DESIGNER / CNC PROGRAMMER / FOUNDER

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### 01 EDUCATION

#### CSU LONG BEACH

3.874 GPA · AGD MAY 2027

##### MAJOR

B.S. Industrial Design

##### MINOR

Entrepreneurship

#### SAN BERNARDINO VALLEY COLLEGE

4.0 GPA · HIGHEST HONORS

##### ASSOCIATE DEGREES

A.S. CNC, CAD, CAM

A.S. Machinist Standard

A.A. Biological & Physical Sciences

A.A. Social & Behavioral Sciences

A.A. Humanities & Fine Arts (3.9 GPA)

#### TECH. EMPLOYMENT TRAINING

N.I.M.S. CERTS

CNC Mill Programming, Setup & Ops

CNC Mill Operations

Measurement, Materials & Safety

Job Planning, Benchwork & Layout

### 02 EMPLOYMENT

2026

– PRESENT

#### FOUNDER & PRINCIPAL DESIGNER

MULTIXYZ DESIGN & CNC · SELF-EMPLOYED

Operate a freelance design and manufacturing consultancy supporting startups, inventors, and brands with industrial design, CAD/CAM, CNC manufacturability guidance, AI-assisted workflows, website prototyping, and production-ready technical deliverables; advise clients on DFM, CNC processes, post-processor considerations, prototyping strategy, and manufacturing coordination while managing brand development, client relationships, and project execution.

2026

– PRESENT

#### ENTREPRENEURIAL INTERN

ICON DEVELOPMENT GROUP INC.

Embedded with a product-development studio supporting entrepreneurial projects & client work across ideation, sketch-to-CAD, rendering, and prototype delivery. Contribute to design reviews and DFM iteration; translate design intent into manufacturable geometry & toolpaths and website design & e-commerce operations.

2026

– PRESENT

#### PRINCIPAL RESEARCHER

MCNAIR POSTBACCALAUREATE RESEARCH INTERNSHIP

Design, conduct, & present a faculty-mentored research project in special topics in industrial design and manufacturing; develop literature review, methodology, and prototyping plan toward graduate study.

2012

– PRESENT

#### FOUNDER & E-COMMERCE ENTREPRENEUR

SLABB IT COLLECTIBLES · SHELVED TREASURES · EBAY & MULTI-PLATFORM

Founded and operate a data-driven eCommerce venture in vintage and graded collectibles — managing inventory, authentication, market and pricing analysis, listing optimization, fulfillment, and customer relations.

Apply analytical decision-making, performance metrics, and process optimization to maximize ROI, adapt to platform algorithm changes, and standardize workflows for QC, documentation, and risk mitigation.

02

## EMPLOYMENT [CONT.]

2024

## CNC PROGRAMMER &amp; SET-UP OPERATOR

CSULB DESIGN DEPARTMENT

Identified and brought online a previously unused \$60K Freedom CNC router, sourcing maintenance resources, compatible CAM software, and Fagor post-processor. Delivered deadline-driven CNC manufacturing through optimized CAD models, tolerances, stock prep, speeds/feeds, and 3D toolpaths for custom furniture and guitar prototypes.

2021

## CNC · CAD · CAM LAB TECH

- 2022

SBVC MACHINIST TECH. · LEAD PROF. ASSISTANT · UNIQUELY ABLED ACADEMY T.A.

Directly supported the inaugural CNC cohort's 100% graduation rate by training students and guests in safe operation, CAD/CAM programming, blueprint interpretation, G-code generation, tooling, workholding, offsets, simulation, QC, troubleshooting, and materials procurement. Operated and instructed across CNC and conventional mills, lathes, wire EDM, and related platforms — Haas, Okuma, Amada, Mazak, Samsung, Fanuc, DMG Mori, Siemens, and Sodick.

2017 - 18

## GENERAL CONTRACTOR APPRENTICE

CONTRERAS CONSTRUCTION

2016

## MACHINE OPERATOR / CHOCOLATE GLAZER

BISCOMERICA CORP.

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## HONORS &amp; LEADERSHIP

2026

Innova Design Competition & Scholarship  
SUNNSTONE INNOVATION CHALLENGE

'25

Ronald E. McNair Postbaccalaureate Achievement Program  
ACTIVE SCHOLAR · 2025-PRESENT

'25

Apostle Enterprise Lab & Ideation Challenge  
CSULB DEAN'S HONOR LIST · SPRING 2025

'23

CSULB President's Honor List  
FALL 2023, FALL 2024, FALL 2025

'24

1st Gen Mentorship Program · EOP  
EDUCATIONAL OPPORTUNITY PROGRAM · 2023-PRESENT

'20

SBVC President's Honor List  
SPRING 2020, 2021, 2022, 2023

'22

Skills USA CTE California — Guest Judge  
AUTOMATED MANUFACTURING COMPETITION

'21

SBVC Machinist Club  
PRESIDENT · TREASURER · CO-FOUNDER · 2021-2022

'21

WD-40 Company — Television Commercial

'19

HBO: *Our Town* Documentary Participant

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## SOFTWARE &amp; MACHINE TOOLS

ADVANCED

SOFTWARE

SolidWorks / MasterCAM / NC Correct / Keyshot / Sketchbook / Vizcom  
AI / Miro / ChatGPT / MS Suite

PROFICIENT

SOFTWARE

Fusion 360 / AutoCAD / Inventor / Maya / Nomad / Excel / Adobe  
Creative Cloud

04

## SKILLS

CAD / CAM

CNC PROGRAMMING

MULTI-AXIS (3-5)

DFM

GD&amp;T

TOOLPATH OPTIMIZATION

DESIGN-FOR-MANUFACTURABILITY

FIXTURE &amp; WORKHOLDING DESIGN

REVERSE ENGINEERING

SCAN-TO-CAD

METROLOGY

PRECISION MEASUREMENT

ADDITIVE &amp; HYBRID PROTOTYPING

DIGITAL RENDERING

DESIGN VISUALIZATION

ENGINEERING DESIGN

PROCESS PLANNING

MANUFACTURING OPTIMIZATION

LAB OPERATIONS

EXPERIMENTAL SETUP

ANSI / ISO DOCUMENTATION

TECHNICAL COMMUNICATION

CROSS-DISCIPLINARY COLLAB.

SYSTEMS THINKING

ANALYTICAL PROBLEM-SOLVING

ADAPTABILITY

SELF-MOTIVATION

DELEGATING

TASK PRIORITIZATION

CONTINUOUS LEARNING

FLUENT ENGLISH

CONV. SPANISH

CNC

MILLS · LATHES · EDM

Haas 3-5-axis Mill (TM1, VF1, VF2, TRM, UMC-750) & 2-axis Lathe (HL1) /  
DMG Mori Siemens Sinumerik 3-axis Mill-Tap / Mazak Mazatrol 5-axis  
Mill (VC-500A) & 2-axis Lathe (QTP150S) / Okuma 2-axis Lathe /  
Sodick 3-axis Wire EDM / Freedom CNC Router (Fagor) / Amada Press

ADDITIVE

3D PRINTING · CONVENTIONAL

Bambu Labs (H2D, P2S, P1S, A1) / Creality (Ender 3 V2 Neo, V3  
SE) / Eleegoo (Mars 2, 3 Pro) / Conventional Mill, Lathe, Band  
Saw, Drill Press, Surface & Pedestal Grinder