

# Damon Ervin

## Engineering & Design

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## OPERATIONAL SKILLS

Mechanical Engineering  
Electrical Systems Maintenance  
Regulatory Compliance  
Collaboration  
Documentation  
FMEA  
Root Cause Analysis  
Simulation  
Project Management  
Communication  
Accountability  
Adaptability

## EXPERTISE

Safety Practices - LOTO  
Computer-Aided Design  
Tool & Die Design  
Prototype Design  
R&D  
Dependability  
RCM Methodology  
DOE Methodology  
Innovation  
Equipment Design & Optimization  
Industrial Manufacturing Equipment  
Fabrication  
Continuous Improvement  
Creative Solutions  
Cross-Functional Leadership  
Electrical Troubleshooting  
Process Improvement

## SOFTWARE

SOLIDWORKS  
Autodesk Inventor  
Catia  
AutoCAD  
Revit  
Office 365  
Autodesk Maya  
NukeX  
Mocha  
Adobe Creative Suite

## EDUCATION

### BS - VISUAL EFFECTS

Los Angeles Film School | 2017 - 2019  
National Honors Society Film and Television

### AAS - 3D MODELING AND DESIGN

Platt College of San Diego | 2015

### AS - ANIMATION

Los Angeles Film School | 2012 - 2014  
National Honors Society Film and Television

## CERTIFICATIONS

### RED CROSS

Adult & Pediatric First Aid/CPR/AED | 2023 - 2025

## ABOUT ME

Experienced professional with 10+ years of experience with a comprehensive educational and technical background in engineering and computer arts. Skilled in managing resources across diverse teams and departments, ensuring project goals met within set budgets and deadlines. Innovative analytical person with a practical approach to overcoming obstacles. A leader who is resourceful and has a passion for growth. Proven history of producing results and providing creative solutions.

## EXPERIENCE

### TOOL AND DIE SPECIALIST, MECHANICAL ENGINEER

Tesla | April 2022 - Present

**SOFTWARE: SOLIDWORKS | AUTODESK INVENTOR | CATIA | OFFICE 365**

- Create and engineer cells to streamline the connection processes through automation in Osiris testers.
- Modify, log and record tooling redesigns to help eliminate workstation fall outs.
- Design and fabricate tooling and support structures for the integration of robotics and vision systems.
- Safeguard that designs and systems comply with standards, regulations, and safety requirements.
- Efficiently manage the machine shop across four shifts including colleagues from other Tesla locations, all while maintaining a record of zero safety incidents.
- Employ precision machinery such as lathes, milling machines and grinders to fabricate, shape and finish metal parts and components according to design specifications.

### AUTOMATED CONTROLS TECHNICIAN / PROJECT SUPPORT & COMMISSIONING

Integrated System Design | 2021 - 2023

*Tesla 901 Page, Shipmonk, SAS Automotive*

**SOFTWARE: OFFICE 365**

- Diagnosed mechanical and electrical problems to determine solutions to correct concerns.
- Installed and established new control systems in line with specified requirements.
- Supervised contractors during the installation and wiring of control systems to ensure their completion.
- Established that O&M staff are adequately trained on the systems and procedures necessary for the day-to-day running and maintenance of the systems or facilities.
- Handoff of proper updated electrical schematics, wiring diagrams, panel schedules, power distribution, SLDs and cable layouts.

### DIGITAL ARTIST / COMPOSITOR

Lola VFX | 2019 - 2021

*Credits: Wanda Vision, West Side Story, Free Guy, Coming 2 America, Death of the Nile, Maverick*

**SOFTWARE: NUKE X | MOCHA**

- Performed comprehensive rotoscoping (including full-body articulation and garbage mattes), roto painting, beauty retouching and shot compositing for feature films.
- Combined visual elements from different sources to create the illusion of a single cohesive scene.
- Leveraged a suite of sophisticated software tools for motion tracking and camera stabilization, ensuring alignment of elements throughout every frame.

### DESIGN ENGINEER / PROJECT MANAGER

Universal Electric | 2015 - 2021

*Tesla Fremont, Faurecia, Magna, Toefco, Talon, Shipmonk*

**SOFTWARE: SOLIDWORKS | AUTOCAD | REVIT | OFFICE 365**

- Examined on-site electrical systems and equipment to identify faults and devise design corrections.
- Created project plans to fit customer needs to deliver within budget on agreed upon deadlines.
- Trained electrical technicians to troubleshoot and resolve system failures within PDPs; LV and MV.
- Validated all work adhered to industry safety standards, regulations and best practices.
- Managed mechanical and electrical projects from conception through to completion.
- Conducted calculations and simulations for stress and thermal analysis to evaluate design viability verifying safety, functionality and efficiency.
- Overseen the interpretation and application of engineering, mechanical and electrical blueprints in project planning and execution.

### VFX ARTIST / COMPOSITOR

Proshot Productions | 2015 - 2018

*BMW, Aya Healthcare, SBE, Century 21, Kids on the GO, Rady's Children's Hospital, Phobic*

**SOFTWARE: NUKE X | MOCHA | AUTODESK MAYA | ADOBE CREATIVE SUITE**

- Collaborated closely with clients and team members to develop suitable shot strategies and designs.
- Developed initial concepts and performed previsualization to establish the visual directions and planning of present and future projects.
- Seamlessly blended 2D and 3D elements into live-action footage for impactful advertising and marketing campaigns.