

# Nathan B. McCray

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## QUALIFICATIONS:

- Proficiency in Microsoft Word, Excel, AutoCAD, Inventor, and Outlook.
- Adept verbal and written communication capabilities coupled with technical writing, and analytical abilities.
- Teamwork centered to prioritize work, problem solve, and analytically and logically reach solutions.
- Certified Welding Inspector (CWI), AWS D1.1 - VT, MT, & WPS Generation experience.
- Gained thorough knowledge of manufacturing processes through work experience and university course work.
- Proficient in Shield Metal Arc Welding and Gas Metal Arc welding of structural steel and pipe and plate.
- Capable of Gas Tungsten Arc, Titanium, Chromalloy, Inconel, Stainless Steel, and Aluminum welding.
- Experience with lathes, vertical mills, surface grinders, and limited CNC machine operator.
- Familiarity with vacuum bagging and autoclave processing technology of composite materials.
- Fluent in Spanish.

## EDUCATION:

- 2008** Bachelor of Science in Manufacturing Engineering Technology, (ABET accredited 3.4 Grade point average on 4.0 scale) Arizona State University (Mesa, Arizona)
- 2004** Associate of Applied Science in Manufacturing Engineering Technology (3.7 Grade point average on 4.0 scale) Cochise College (Sierra Vista, Arizona)
- 2003** Associate of Applied Science in Welding Technology (3.8 Grade point average on 4.0 scale) Cochise College (Sierra Vista, Arizona)

## EMPLOYMENT:

### **Advanced Manufacturing / Welding Instructor, Eastern Arizona College**

August 2015 to Present

### **Manufacturing Engineer / Welding Inspector, Oil States Industries**

April 2013 to July 2015

- Create product routing from raw material through the manufacturing process to final product.
- WPS/PQR generation thru collaboration with welding engineering.
- Prioritize job tasks and use teamwork to maintain rigorous project completion dates.
- Consult with Mfg. Engineers, Project managers, Fab & Machine shop management to reach solutions to problems.
- Work with 3<sup>rd</sup> party inspectors and other outside vendors to accommodate quality / production needs.
- Gather & Organize data during Weld Procedure Qualification tests and provide support to Welders & Fabrication Mgmt.
- Maintain & prioritize cladding schedule for forgings processed thru automated/conventional cladding work cell.

### **Manufacturing Engineer, Triumph Fabrications**

Aug 2011 to April 2013

- Create product routing through the manufacturing process.
- Collaborate with engineering staff and management for product design and characterization.
- Utilize AutoCAD & Inventor to create 3D part models for production design, tooling, and routing operation sheets.
- Create detailed tool drawings with GD&T principles and assembly operation sheets for manufacturing processes.

### **Welding Inspector, Stinger Welding**

Feb 2011 to May 2012

- Perform detailed visual weld inspections of weldments under the AWS D 1.1 & D1.5 welding codes.
- Generate welding reports based on the weld inspections performed (visual and magnetic particle).
- Received training in NDT Ultrasonic Inspection (UT) methods and studied UT principles.
- Familiar with NDT methods and shadowed level II and Level III weld inspectors during NDT Inspections
- Communicate with job supervisors about quality issues and needs for improvement.
- Perform weld machine calibrations, create weld logs, and perform Mag. Particle weld inspections.

### **Manufacturing Process Engineer, Armor Designs LLC Welder / Commercial Plumber, Harvey Plumbing**

March 2007 to Feb 2010  
May 1996 - August 2004

## CERTIFICATIONS/AWARDS:

- GD&T Interpretation Certification from Klontech INC.
- Certified Welding Inspector (CWI) AWS D1.1 Code
- Aero Space Thermal Fusion Welding Certification
- Eagle Scout

Received April 2012  
Received March 2010  
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Received March 1997