

# **Robert G. Powell**

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## **Education**

### **Bachelor of Science, General Engineering Applied Materials**

The Pennsylvania State University, DuBois, PA

Graduated May 2014 (3.81 GPA)

- Research Project and Publications:
  - Powder Metal De-Lubrication (Abbott Furnace)
  - PowderMet 2012, 2013, and 2014 Conference Presentations
  - CPMT/Axel Madsen Conference Grant Award, 2012
- Materials Science
- SEM Analysis
- Microstructure Analysis
- Material Mechanical Property Analysis
- Density Analysis
- Powder Analysis
- APMI Member Throughout College

#### *Significant Courses of Study:*

- Crystal Chemistry
- Heat and Mass Transfer
- Materials Processing
- 3D Modeling and CAD (SolidWorks, Inventor, AutoCAD)
- Electrical and Magnetic Properties of Materials
- Finite Element Analysis
- One Class from Business Minor Completion
- Technical Writing

### **Associate of Science, Mechanical Engineering Technology**

The Pennsylvania State University, DuBois, PA

Graduated May 2011 (3.83 GPA)

- MET Capstone Project: High Temperature Ceramic Belt Link Design for Powder Metal, Continuous Belt Furnace (Abbott Furnace)
- 3D Modeling and CAD (SolidWorks, Inventor, AutoCAD)
- Electrical Engineering Technology

## **Work Experience**

### **Atlas Pressed Metals, DuBois, PA** *Materials Engineer I*

March 2018 to Current

- Metallurgical analysis and process engineering of powder metal part production
  - Microstructure analysis
  - Raw material analysis
  - Material development
  - Process development, improvement, and troubleshooting
  - Lab equipment installation, improvement, and maintenance
  - Hardware and component 3D modeling and 3D printing
  - Customer communication
  - Attendance of conferences

### **Metal Powder Products, St. Mary's, PA** *Process Quality Engineer*

October 2016 to March 2018

- Oversee process quality of multiple production lines
  - Performed control plan audits
  - Reviewed customer concerns
  - Standardized and improved all production density stations
  - Improved nonconforming material (NCM) procedures and communication
  - Participated in MRB
  - Audited NCM sorts
  - Conducted capability studies
  - Created work instructions
  - Performed process audits
  - Compiled gauge R&R's
- Supervision of first shift powder metal, product production
  - Scheduled, assisted payroll, and monitored about twenty employees
  - Monitored and scheduled eleven production lines and about fifty presses

### **Morgan Advanced Materials, St. Mary's, PA** *Manufacturing Engineer*

November 2014 to May 2016

- Engineering representative for production tooling
  - Improved tooling performance
  - Reduced tooling cost
  - Designed custom tooling
  - Performed tooling testing
  - Utilized CVD coated and PCD diamond tooling plus grinding wheels
  - Established business relationships with tooling representatives
- Hardware design
- Blueprints and 3-D models (Pro-E Creo)

**SMS Millcraft, Oil City, PA** *Coatings Engineer*

May 2014 to November 2014

- HVOF thermal coating
- Electroplating
- Coating analysis
- Constructing work instructions
- Supervision

**Niagara Cutter, Reynoldsville, PA** *Engineering Intern*

May 2013 to 2014

- Creating prints for various fixtures and tools
- Production tooling inventory
- Floor plan modeling
- Data logging

**Acme Machine and Welding, Punxsutawney, PA** *Machinist*

May 2007 to 2009

- CNC and manual horizontal mill machining
- CNC programming
- Constructing fixtures and set-ups

Heidenhein, Chicago, IL (April 2008)

Certification: *CNC Mill Programming*

Mazak, Florence, KY (July 2007)

Certification: *CNC Mill Programming*

**R&R Engine Rebuilders, Brookville, PA** *Machinist*

September 1996 to 2007

- Machining and assembly of internal combustion engine components
- Fabricating
- High performance, diesel, and automotive engine types
- Sprint car race team

**Professional Skills**

- Process Engineering
- Material Science
- 3-D modeling and CAD (Pro-E Creo, SolidWorks, Inventor, AutoCAD)
- Machining and Tooling
- Microsoft Excel, Word, Outlook
- Supervision
- Lean Six Sigma Green Belt
- Quality
- GD&T