

Andrew Peckat

Applied Physics, Mechanical Engineering and Design

Louisville, KY 40214



Studied applied physics at Indiana University, extensive AutoCAD work and machine shop skills. Began work in Louisville KY as CNC Machine operator where I grew quickly before taking a position as a design engineer working with the world's leading auto-manufacturers, and progressing to working with ASME Sec 8 Div 1 pressurized vessels and industrial mixers and finally finding my niche as a Design Engineer and Drafter working on specialized high pressure man-ways and closures.

Willing to relocate to: Louisville, KY

Authorized to work in the US for any employer

Work Experience

Pet Therapy Volunteer

Landmark Hospitals - Louisville, KY

January 2020 to Present

Provide pet therapy to those who are in the process of recovering from drug and alcohol dependency. I have a Dalmatian named Murphy who is a fan favorite and loves to give hugs and kisses to those who have been hugged or kiss in quite some time.

Pet Therapy Volunteer

Centerstone - Louisville, KY

December 2019 to Present

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Design and Weld Engineer

Sypris Technologies - Louisville, KY

August 2018 to Present

General responsibilities include learning and design of Tube Turn products, specific to the T-bolt, Double Bolt, and Tool Less closures along with provide support to manufacturing side of the plant so problems encountered on the floor can be resolved quickly. Working with team mates on continuous improvement to eliminate engineering errors and create standardized bills of materials. Use in house MRP/ERP software to create part numbers, associate drawings, and order parts for jobs. Maintain digital database of 2D and 3D parts and assemblies. Provide customer models in both 3D and 2D format using Inventor 2017 and AutoCAD Mechanical.

Research and improvements into automation of closures and developing new standard part lists for customer who request the addition of automation which has resulted in cutting assembly time down by several days and savings of thousands of dollars.

Continuous improvement projects include overseeing the interview, hire, and management of a drafter for our Tube Turns Mexico plant who helped to convert several hundred of drawings from hand drawn scans into clean and manageable 2D CAD drawings. I was able to work with this individual and maintain a set schedule while meeting deadlines and overcoming obstacles. Continued education has continued with travel between countries and zoom meetings while travel restrictions are in effect.

Design & Mechanical Engineer

MXD Process - Louisville, KY

December 2017 to Present

Design and follow up with manufacturing of pressurized vessels and industrial mixers. Extensive Solidworks 2018 work, SWX Simulation for fluid dynamics, load tests, and deflection of surfaces under stress and strain., ERP software for bills of materials, shop floor routers, purchase requisitions, and part number creation and maintenance of part number database. Work with Compress software for ASME Sec 8 Div 1 pressurized vessel calculations. Close work with floor supervisor for quality assurance of both tanks and mixers, impellers, axial flow turbines, and other components as per in house and customer specs.

Recovery Outreach Volunteer

Centerstone - Louisville, KY

April 2017 to Present

Bring recovery meetings of varying formats and styles to detox unit at Centerstone Hospital in central downtown Louisville.

I strive to provide a welcoming and open atmosphere so those who have struggled to connect with someone can open up in both mind and heart to hear the good word of God and recovery.

Design Engineer

A.v. Gauge and Fixture South - Bardstown, KY

May 2017 to November 2017

Responsible for design of automotive gauges and check fixtures, filling out purchase forms and bill of raw materials needed for a build. Working close with supervisors, assemblers, and customers to ensure a smooth build and design such that gauges go out on time and in budget.

Machine Operator

Hafendorfer Machine Inc - Louisville, KY

August 2016 to May 2017

Maintain and operate Mazak mills in high speed, high accuracy fabricated part production. Part time work as Solid Works and TruTops Trumpf Laser Process Engineer.

Research assistant

Indiana University Cyclotron Facility - Bloomington, IN

January 2010 to August 2015

Responsibilities

Machining parts for experiments. Managing team of research assistants. Data entry into computer and mathematical analysis. AutoCAD design and Algor mechanical analysis. Electronic record keeping and log book entry and maintenance. Vapor deposition using sputter coater and electron beam evaporation. Report writing using LaTeX and Word. Purchase requests and accounting. Computer programming and coding.

Accomplishments

Authored on three papers including undergraduate thesis. Several raises and increase in responsibilities and ability to manage two other research assistants. Modified design to detector and source mass on one experiment. Pioneered my own polishing and plating method for creating electrodes in another experiment.

Skills Used

Meticulous attention to detail. Intense work ethic. Made my own hours so I had to be self motivated to work. Ability to work under intense stress and time tables. Lots of typing and record keeping. Able to work well with a team and take control when needed. Learned about two experiments in and out.

Sales Associate

Office Depot - Bloomington, IN

October 2008 to August 2009

Responsibilities

Maintain stock on sales floor. Interact with customers in a friendly manner. Manage sales and printing center.

Accomplishments

Maintained high sales with highest perception of commissions.

Skills Used

Excellent people skills. Photoshop and Microsoft office suite proficiency. Vast computer knowledge. Up to date on new technology and upcoming advances in technology.

Education

Master's in Business Administration

University of Louisville - Louisville, KY

August 2020 to Present

BS in Applied Physics

Indiana University - Bloomington, IN

August 2009 to August 2015

Skills

- Solidworks (2 years)
- Autocad (4 years)
- Process Engineering (Less than 1 year)
- Engineering (4 years)
- Electrical (10+ years)
- Inventor 2017 (4 years)
- CAD
- Drafting

- Autodesk
- Project Management

Certifications and Licenses

Driver's License

Groups

The Pete Foundation

August 2017 to Present

Board member of The Pete Foundation whos vision is to ensure healthy emotional lives for youth. We envision a world in which every individual is equipped with the tools necessary to understand, express, and seek support for themselves and others. It is a world free from the social stigmas surrounding mental health, with a complete understanding of its effects. It is a world in which suicide attempts are eliminated because depression and anxiety are detected and addressed starting at a young age. My primary focus and workload has been as volunteer coordinator. I worked hard to staff our music festival each year which raises money to provide mental health education and resources to at risk youth in the jefferson county area.

One Word Non Profit

October 2020 to Present

OneWord nonprofit provides literacy access, education, and creative expression to the Shelby Park community in Louisville Kentucky

Housed in the Logan Street Market, OneWord, benefitted from Stalwart Books, seeks to provide free GED education and ESL classes to varying demographics living at or below the poverty line in the Shelby Park neighborhood.

Additional Information

Strong engineering skills in many aspects. I have been able to wire a house, laboratory and small electronics using home soldiering kits and micro-soldering using a microscope in a laboratory setting. Extensive automotive knowledge having done complete engine rebuilds and rewiring along with installing Android based computers in cars. In addition, the electrical skills and knowledge that come with working on computers having built my first computer at age 12 and continued this both as a hobby and profession.

I love learning. I can tackle any task thrown at me and I'm not afraid to ask for help along the way. I often work longer hours than my colleagues and have a stronger drive and competitive attitude to constantly improve and be the best employee and coworker I can.