Andrew McKinney
Process Engineer

Have you ever flown in a jet before? If you have, then you have used our products from Arconic Engines. Andrew McKinney is the Process Engineer and Owner of the *thermoset ceramic* production process at Arconic, responsible for manufacturing the bulk materials used in allowing planes to fly more efficiently and drive down ticket prices for consumers. Drew specializes in statistical automation and lateral innovation. Drew is seeking opportunities that offer growth in research, automation, and machine learning.

Portfolio

- **Stock Market Analytica**
  - Make BILLIONS and BILLIONS and BILLIONS… (I think you get the picture).. with this nice market analysis tool!
  - armck-hub.github.io/project_financialanalytica.html
- **Salary Market Analytica**
  - This tool web-scrapes data from some of the top job-finder and salary websites then compiles it into nice, readable charts.
  - armck-hub.github.io/project_salarymarket.html
- **Project Management System**
  - This system tracks projects for efficient management and displaying value added to the company.
  - armck-hub.github.io/project_projectmanagement.html

Experience

Process Engineer
Arconic Engines – *Morristown, TN*

- Led plant specification and integration of PI Vision, Historian, and other digital fingerprint infrastructure for manufacturing and plant systems
- Oversaw startup and managed integration / optimization of transfer and new thermoset compounding production processes to new facility – *$4M+ annum direct revenue; $350k+ direct savings*
- Developed new product criteria and production process in collaboration with downstream process owners and business unit R&D – *$2M+ annum savings*
- Integrated autonomous BI management practices such as documentation control, Statistical Process Control (SPC), inventory management, process improvements, etc. – *$400K+ annum savings*

EHS & Process Engineer, Jr.
BASF – *Chattanooga, TN*

- Led Six Sigma Yellow Belt Certification for waste minimization - *$15K+ annum*
- Reviewed, Updated, and Created EHS, Operations, and LOTO Procedures
- Assisted Engineering in a variety of preventative maintenance, lab, and process improvement projects
- Conducted program development work for various EHS programs and oversaw Environmental portion of internal EHS / PSM audit

Education

Vanderbilt University via T.E.S.
Certificate: Data Analytics
Technologies: Pandas, Matplotlib, Plotly, Seaborn, Requests, Bootstrap, BeautifulSoup, MongoDB, D3.js, Leaflet.js, git

University of Tennessee at Chattanooga
Degree: B.S. Chemical Engineering
Notable Courses: Probability & Statistics for Engineers, Engineering Economy, Engineering Computations, Unit Operations, Engineering Design

Volunteer Experience

- Founding Member & Secretary of ΑΦΩ Service Fraternity Petition Group – *UTC*
- Flood Reconstruction Volunteer – *Pegram, TN*
- Family Recreation Day Volunteer – *Nemak, Inc*

Personal Information

Location
Knoxville, TN 37918

Phone
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GitHub
github.com/ARMcK-hub

LinkedIn
linkedin.com/in/andrew-mckinney-92a8a4118/

Website
armck-hub.github.io/

Languages

- Python
- R
- SQL (Postgre)
- HTML
- CSS
- JavaScript
- Visual Basic
- Dart (Flutter)
- Minitab Command

Software Skills

- GitHub
- MS Office Suite
- Visio
- Power BI
- Tableau
- JMP
- Minitab
- PI Vison, DL, & AF