

Ryan M. Fair

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EDUCATION

Grove City College – Grove City, PA

Bachelor of Science in Mechanical Engineering, Minor in Robotics

Graduation Date: May 2022

4-year ABET Accredited Program

TECHNICAL SKILLS

- Software
 - Advanced: MATLAB, Microsoft Office
 - Intermediate: SolidWorks, Autodesk CAD Inventor, PTC Mathcad, Creo Parametric (ProE)
 - Basic: Easel by Inventables, CES edupack, Ansys, AutoCAD LTE, LightBurn for Lasers
- Machining: drill presses, chop saws, band saws, Computer Numerical Control (CNCs), Mills, Lathes
- 3D Printing: Statasys Fortus 380mc & 450mc, Creality Ender 3 v2 Neo, FlashForge

Industrial Engineer – Liberty Electronics , Franklin, PA

June 6th 2022- Present

- Reviewed and improved manufacturing process flows for locomotives and military wire harnesses
- Determined the best method to manufacture custom wire harnesses and assembly builds
- Designed assembly lines to deliver services with improved efficiency by required shipment date
- Consulted with production operators to determine ideal assembly build order per quality requirements while utilizing available manufacturing methods
- Managed process step time allotment per efficiency time and time study data
- Resolved quality control issues throughout production in a cost effective manner
- Generated fixtures, jigs, and assembly aids for use in production and inspection
- Interpreted customer drawings, quality documents, wire schematics and wire lists
- Compiled comprehensive technical reports on efficiency, work in progress, and Finite Element Analysis
- Implemented 5S process improvement and workstation organization
- Created cross-referenced routers to accompany sub-assembly components prior to final assembly build
- Fabricated custom, cost-effective shipping A-frames for wire harness control panels

ACADEMIC PROJECTS - Grove City College, Grove City, PA

Secretary, Liberty Electronics Automatic Wire Label Applicator, Senior Design

Fall 2021-Spring 2022

- Lead clear communication between multi-disciplined seven-membered team to improve existing equipment to meet Liberty Electronics's function requirements
- Awarded "Grove City College MECE Team Leader Award" for leadership abilities and selfless dedication
- Compiled and managed comprehensive meeting minutes and documentation
- Worked with team to generate designs to reduce cycle time below human levels while operating safely
- Acted as liaison between machine shop and engineering team to improve design for manufacturing
- Designed and integrated parts for cost-effective machine upgrades

VOLUNTEER EXPERIENCE

Christian Life Academy (CLA), Seneca, PA

Boosting Engineering Science and Technology mentor

Fall 2017- Present

- Mentoring proper Engineering Notebook protocol for high schoolers participating in the B.E.S.T. Robotics Competition
- Directed student lead application of engineering design process and documentation
- Coached students on the correct utilization of various tools

Instructor for Computer Technologies 9th & 10th and Instructor for 3D Design 11-12th Winter 2022 – Spring 2023

- Instilled workforce critical Microsoft 365 Suite skills
- Taught design for 3D printing, utilizing Autodesk Inventor and FlashForge slicer software
- Trained students in general engineering drawing practices and design fundamentals