Trevor Hollis

Columbus, OH · trevor.hollis@example.com · (614) 555-0197 · linkedin.com/in/example-trevor-hollis

My Key Qualifications

- **5 years of mechanical design in material handling**, one unbroken stretch from Hytrol Conveyor Company in 2021 through conveyor and custom equipment projects at Intelligrated today.
- Released **126 fabrication and assembly drawings across 4 e-commerce fulfillment projects** on schedule, modeled in Autodesk Inventor with layout work in AutoCAD.
- Performs the job's core engineering calculations, shafts, bearings, motor sizing, and structural members; standardized calculation worksheets for common conveyor modules cut review time from 2 hours to **75 minutes per module**.
- **FEA on support brackets and access platforms** in a parcel sortation layout, removing 84 lb of steel across 6 bracket families while meeting deflection limits.
- Uses **GD&T and tolerance stack-up analysis** to fix field issues, cutting guard-panel rework from 9 modified panels on one phase to 2 on the next.
- Manages **BOM accuracy and revision control** against project schedules; pre-release checks dropped shop questions from 7 to 2 between comparable projects.
- Partners with controls, manufacturing, procurement, and field installation teams from drawing release through **commissioning follow-up and root cause analysis**.

Experience

Mechanical Engineer — **Intelligrated**, a warehouse automation and conveyor systems integrator

Feb 2023 – Present · 3 yrs 9 mos

- Released 126 fabrication and assembly drawings across 4 e-commerce fulfillment projects on schedule, designing conveyor sections, guarding, and structural supports in Autodesk Inventor and AutoCAD.
- Standardized shaft, bearing, and motor sizing worksheets for common conveyor modules, cutting calculation review time from about 2 hours to 75 minutes per module with documented assumptions.
- Performed FEA on support brackets and access platforms in a parcel sortation layout, removing 84 lb of steel across 6 bracket families while meeting deflection limits before fabrication release.
- Resolved a recurring field issue with misaligned guard mounting by reviewing as-built conditions with field teams and tightening bracket tolerances, reducing rework from 9 modified guard panels in one phase to 2 in the next.
- Improved BOM accuracy ahead of release to procurement and fabrication with pre-release checks on hardware and cut lengths, cutting BOM-related shop questions from 7 per project to 2 on the next comparable project.
- Partner with controls, procurement, manufacturing, and field installation teams to resolve design and site issues, managing revision control and drawing release against project schedules.

Design Engineer — **Hytrol Conveyor Company**, conveyor and material handling equipment manufacturer

Jan 2021 – Jan 2023 · 2 yrs

- Updated a family of conveyor side frame and guard designs for easier fabrication and assembly, cutting average assembly time by 18 minutes per unit across a 40-unit production run by simplifying sheet metal features and standardizing hole locations.
- Closed 52 drawing revisions in 12 months while meeting release dates for all assigned projects, managing revision control, checking BOM alignment, and coordinating approvals with manufacturing and purchasing.
- Investigated premature wear on an idler mounting bracket in a high-cycle application; extended observed service life from about 4 months to 9 months in follow-up field reports by increasing local stiffness and validating the redesign with a stress check before release.
- Created and revised conveyor component and assembly drawings in Autodesk Inventor and AutoCAD for standard product lines and customer-specific modifications.
- Worked with manufacturing and vendors on weldment, sheet metal, and machined part details, and supported field and service teams with drawing clarifications and corrective updates.

Education

- **University of Louisville** — Bachelor of Science in Mechanical Engineering · 2016 – 2020

Skills

- **CAD & Design Tools:** Autodesk Inventor, AutoCAD
- **Material Handling & Conveyor Design:** Conveyor Design, Material Handling Equipment
- **Design Analysis & Methods:** FEA, GD&T, Tolerance Stack-up Analysis, DFM/DFA
- **Manufacturing Processes:** Weldments, Sheet metal