

Curriculum Vitae of

# Jacob Morrise, MSME

1539 N 180 W

Lehi, UT, 84043

801-210-1442

[jacob@sambriaees.com](mailto:jacob@sambriaees.com)

[www.SambriaEES.com](http://www.SambriaEES.com)



## **EDUCATION**

Jacob Morrise attended college at Brigham Young University-Idaho, on a full academic scholarship. He received a Bachelor of Science degree in mechanical engineering, graduating Magna Cum Laude in December 2008. While there, he worked as both a Teacher's Aide for manufacturing engineering courses, and as a math tutor.

Jacob received a Master of Science degree in, mechanical engineering from Brigham Young University in December 2011. At BYU he was inducted into the Phi Kappa Phi Honors Society. His focus was product design, and his thesis was in Poverty Alleviation through Modular Product Development.

## **ENGINEERING WORK HISTORY**

### **Sambria Engineering and Expert Services, LLC, April 2026 - Present**

Jacob Morrise started working as a consultant/independent contractor for Sambria Engineering and Expert Services in April 2026. He has worked for them as a product liability, product safety, and engineering expert witness.

### **Morrise Products LLC, October 2018 - Present**

Jacob Morrise started Morrise Products LLC in October of 2018. Morrise Products is primarily a product design services company. Jacob is the owner, and primary mechanical designer. Jacob has help dozens of companies with design and manufacturing. He also designed, produced and sells several Morrise Products branded products.

### **RPH Engineering LLC, February 2012 – December 2018**

Jacob Morrise worked full-time at RPH Engineering, a consulting design company that helps companies design and manufacture consumer, industrial, medical, and other products. Jacob worked as the engineering manager and primary mechanical designer.

### **Brigham Young University – September 2019 – April 2021**

Jacob Morrise was an adjunct faculty member at Brigham Young University starting in 2019 where he coached senior engineering students in their capstone design projects.

### **ATL Technology, LLC – August 2011 – February 2012**

Jacob Morrise worked at ATL Technology, LLC starting in August 2011, designing medical and consumer mechanical/electrical products.

### **L3 Technologies – February 2009 – April 2010**

Jacob Morrise worked at L3 communications as a mechanical engineer working on large dish antennas for military aircraft. He was responsible for the assembly of a large dish antenna and worked to get prototypes built and tested.

### **Arlington Scientific, INC. – May 2008 – August 2008**

Jacob Morrise worked at Arlington Scientific in 2008 working on medical devices, specifically lounges for blood donors. While there he documented the design, CAD, and drawings of the existing catalog as well as designing needed improvements.

### **Moog Aircraft – May 2007 – September 2007**

Jacob Morrise worked at Moog Aircraft designing parts for commercial and business jets. These included actuators and stabilizers for several airplanes.

### **B/E Aerospace May 2006 – Aug 2006**

Jacob Morrise worked at B/E Aerospace in 2006 working on a project to convert a commercial aircraft to a cargo aircraft. He converted outdated design files into new files for design and manufacturing.

## **Engineering and Design Projects**

Jacob Morrise was worked as the primary mechanical design engineer on many projects including:

### Home Security & Safety

- The Ring Doorbell – (the Original Version known as the Doorbot)
- The Gunbox – Gun Safes (RFID, Fingerprint, Bluetooth and WiFi Enabled)
- Electronic Door Locks
- Electronic Padlocks
- Lock Sensor
- Security Doors
- Taser
- Garbage Disposal Safety Switch
- Hose Spigot Lockout Key

### Electronics & Smart Devices

- RFID Wristbands / Rings / Key Fobs
- Solar Power Controller
- Speakers
- Hot Spot Docks

- Docking Stations
- Electrical Switches
- Electrical Plugs
- Pressure Sensor
- Camera Housing

#### Home & Household Products

- Vacuum Attachment
- Snow Shovel
- Storage Box
- Universal Fluid Funnel
- Restaurant Food Tray
- Light Fixture
- Gutter Protector
- Air Freshener
- Filter Cleaner
- Desk
- Closet Furniture

#### Baby & Parenting

- Baby Play Mat
- Baby Bottle Warmer
- Diaper Pail
- Baby Bassinet

#### Medical & Health

- Syphilis Test Equipment
- Covid 19 Test Equipment
- Acupuncture Tools
- Medical Arm Cover for IVs
- Dental Implants
- Handheld X-Ray Equipment
- Masks with Filters
- Medical Cabling

#### Fitness, Wellness & Personal Care

- Exercise Training Equipment
- Foot Cleaner
- Wall Mountable Massage Gun Holder
- Comb
- Footwear

## Tools, Construction & Industrial

- Ladder Attachment
- Hose Cleaner
- Construction Level
- Construction Equipment
- Oil Can
- Metal Detector

## Automotive & Outdoor Transport

- SUV Roof Rack Mounts
- Beach Wagons

## Pet & Animal Products

- Doghouse
- Cat Toys
- Animal Call

## Specialty Animal Enclosures

- Ant Farm
- Tarantula Enclosure
- Bee Enclosure

## Sports, Recreation & Outdoors

- Golf Bag
- Rock Climbing Equipment
- Bow Hunting Equipment

## Personal & Everyday Carry

- Phone / Tablet Cases
- Water Bottles
- Watch Holder

## Apparel & Wearables

- Caddie Uniform

## Retail, Display & Commercial

- Taxicab Advertising Kiosks
- Displays
- Sign Holder
- Gumball Machines

Plumbing, Lawn & Garden

- Lawn Mower Blades

Toys & Hobby

- Remote Controller Vehicle

Aerospace

- Large Antennas
- 3D Printed Antennas
- Cabling
- Cargo Conversion
- Actuators
- Stabilizers

## **EXPERT WITNESS WORK HISTORY**

Jacob Morrise has served as an expert witness on several cases, including:

- Wrongful Death Case involving a Gun Safe
- Patent Infringement Case for Cigarette Rollers

## **PATENTS**

Jacob Morrise is a named inventor on 6 issued patents including:

- Folding baby stroller – US20230024504A1 – A utility patents describing a very small folding stroller design
- Hand tool impacting device with floating pin mechanism – US102046B2 – A utility patent describing the way an impact driver can be alternately configured into an automatic hammer
- Secure storage systems and methods – US9797680B2 – A utility patent describing a locking device to secure firearms
- Lynkd portal and architecture – US20190266558A1 – A utility patent describing the architecture for an internet of things database
- Door lock – USD766067S1 – a design patent showing a door lock device
- Padlock – USD72104S1 – A design patent showing a padlock device

Jacob is also named on 8 published patents that are either pending or have been abandoned, including:

- Wearable systems and apparatuses for loading, storing and transporting coiled objects – US20250288084A1 - A backpack to coil and transport rope for rock climbing
- Environment-controlled pet shelter – US20250185621A1 – An environment-controller doghouse

- Fluid adaptor – US20250137561A1 – A universal funnel for fluid applications
- Secure storage systems and methods – US20150168100A1 – A utility patent describing a locking device to secure firearms
- Electronic Locking System – US20160042582A1 – Description of a lock that used RFID for authentication
- Secure storage systems and methods – US20150168101A1 – A utility patent describing a locking device to secure firearms
- Compliant anti-backlash gear – US20230003291A1 – A gear that expands to prevent backlash
- Contact lens cleaning apparatus and method - US20130152978A1 – A contact lens cleaner using micro cavitation

## **PUBLICATIONS**

Jacob Morrise was the primary author on a paper titled “A Method for Designing Collaborative Products With Application to Poverty Alleviation” published in 2011.

His thesis titled “Collaborative Products: A Design Methodology with Application to Collaborative Products: A Design Methodology with Application to Engineering-Based Poverty Alleviation Engineering-Based Poverty Alleviation” was also published in 2011