Andrew Boles
Full Stack Developer

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Full stack developer and experienced mechanical engineer transitioning to software after rediscovering how much I love building. Strong React & Node skills. Forever curious and ready to take on challenging new technologies and projects. Currently learning: React Native & TypeScript

SKILLS

Frontend
Javascript, React/React Native, HTML, CSS, Next.js, Remix.js

Backend
Node JS, Express, MongoDB, Prisma, Firebase

Misc
Git, npm, Yarn, Webpack, Jest, Github, Bitbucket

PROFESSIONAL EXPERIENCE

Senior Test Engineer - Hypertruck ERX Mechanical Systems, Hyliion, Inc — 2020 – present
- Led design validation planning and execution of ERX electric vehicle program
- Wrote Remix.js Fuel Economy data processing app to provide actionable and saleable insights into fuel efficiency benefits of Hyliion system
- Utilized SQL, KQL, BitBucket, and Azure to organize and display data trends

Test Engineer - Electronic Power Steering Systems, Bosch, GmbH — 2017 – 2020
- Created and executed design validation test plans for 3 electromechanical steering column programs, managing over 100 test samples
- Analyzed complex data sets using Minitab, Excel, and LabVIEW

Attribute Test Engineer - Climate Control Systems, Ford Motor Company — 2016 – 2017
- Owned all climate control performance deliverables for '17-'20 Super Duty
- Used custom software to interface with prototype and production vehicles to analyze performance data, both in the wind tunnel and on the road

Field Engineer, FTS International — 2014 – 2016
- Executed real-time data monitoring and management of on-site oil services, wrote multiple detailed technical reports daily
- Managed a non-technical team of up to 10 employees

Process Engineer, GE Aviation — 2012 – 2014
- Streamlined processes to increase jet engine test pass rate by 6%, saving thousands in labor costs and preventing retests that cost ~$6000
- Spearheaded project to reduce engine rotor vibration, embracing complex data analysis, long term process studies, and repair technique examination

EDUCATION

Bachelor of Science in Aerospace Engineering, Texas A&M University — 2007 – 2012

PROJECTS

FlickFlock, Full stack social video MERN app showcasing Optimistic UI, Auth, Prisma, and SSR

Fuel Economy App, Engineering-focused Remix.js data-processing app featuring OAuth2 and Mapbox

CitySeeker, Next.js app showcasing Tailwind, open API use, and component library utilization