Briton Bauerly

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Summary — Versatile software engineer skilled in frontend, backend, embedded, and communications

Skills

Languages	C#, C++, Python, Javascript/Typescript, Java	**Virtualization**	Proxmox, ESXi, Docker, Kubernetes
Backend	ASP.NET, Spring, Express, Django, Flask	**Protocols**	WebRTC, RTSP, gRPC, WebSockets, SMTP, mTLS
Cloud	AWS, Azure, GCP, Databricks, Terraform	**Networking**	Wireguard, Nginx, Cloudflare, AWS VPC
Frontend	React/Native, .NET MAUI, Blazor, WPF		
Persistence	PostgreSQL, MongoDb, DynamoDb, InfluxDb		

Experience

Boeing **April 2026 - Present**
Embedded Software Engineer - Vehicle Management Systems *St Louis, MO*

- Write and test **safety-critical flight software** for autonomous air combat vehicles at Boeing Phantom Works
- Craft and implement technical requirements for vehicle management systems under tight deadlines

First Orion **March 2025 - April 2026**
Software Engineer - Backend & Cloud *Remote - St Louis, MO*

- Led the design and implementation of a **greenfield cloud-native software** project for a new international customer, **scaling to millions of users** with cutting-edge AWS tools
- Engineered high-performance, **security-critical C++ software** running on bare-metal infrastructure for a tier-1 telecommunications provider
- Designed and maintained the real-time analytics systems used by sales, product delivery, and product success teams

Intramotev Inc **May 2024 - March 2025**
Lead Software Engineer - Applications Software division *St Louis, MO*

- **Designed, implemented, and managed Intramotev's Applications stack** of server, client, and onboard vehicle controls software written with .NET & other technologies.
- **Defined and prioritized features and user stories** for the product roadmap, software releases, and sprint planning while **collaborating closely** with company leadership, stakeholders, and team members.

Intramotev Inc **Jul 2022 - May 2024**
Senior Software Engineer *St Louis, MO*

- **Architected, developed, and productionized Intramotev's first and current software architecture**. Worked with product stakeholders to **solve cross-cutting problems and further buy-in** of the architecture plan.
- Designed and implemented engineering solutions ranging from electrical boards to embedded vehicle control software, backend servers, and web and mobile applications.
- **Designed and implemented Intramotev's vehicle user control system**, including its user dashboard, manual control interface, route plan creator & dispatcher.
- Created vehicle & software **demos instrumental in securing $6.5 million** in seed funding, **$14.5 million** in series A funding, **customer contracts, and letters of intent**.
- Created a **new wireless peripheral control and communications system in C++** with embedded microprocessors & 900 MHz radio transceivers; multi-purpose use including dump and signaling systems.
- Implemented Intramotev's **early vehicle vision safety system**, deploying custom trained neural network object detection models to an embedded vision microprocessor and implementing it into the vehicle architecture.

Additional Experience

Intramotev Inc **Dec 2021 - Jul 2022**
Automation Engineer *St Louis, MO*

- Designed **vehicle and drivetrain mechanical components** for Intramotev's first TugVolt customer demonstration units
- Created Intramotev's first **object detection neural network** using transfer learning, semantic segmentation, tensorflow, and a custom rail image dataset.
- Integrated neural networks and sensor hardware in **embedded Linux devices** for live perception demos.
- Integrated autonomous electric vehicle components into a working self-propelled railcar prototype.

Lectro Engineering **Feb 2021 - Dec 2021**
Mechanical Product Design Engineer *St Louis, MO*

- Designed and released **new mechanical products** in Lectro's factory automation portfolio including bottle sorters and conveyance systems.
- Created custom tooling designs and pioneered alternative tooling development methods to **reduce manufacturing costs**.
- Introduced company to 3D printing methodologies, replacing wasteful components with in-house parts which **saved $100 per product**, reduced COVID-related supply chain concerns, and decreased prototyping time and costs.

True Manufacturing **Dec 2019 - Mar 2020**
Robotics and Automation Engineering Co-op *St Louis, MO*

- Developed new engineering solutions to manufacturing problems via **robotics, software, and CAD** modeling while working with specialists in tooling and additive manufacturing.
- Collected and charted performance data for robot cells, identifying bottlenecks in manufacturing processes and predicting future points of failure.

Iowa State Self-Aware Complex Systems Lab **May 2019 - Dec 2020**
Undergraduate AI Researcher *St Louis, MO*

- Researched, developed, and deployed AI/ML deep learning algorithms for autonomous cars, agricultural robotics, security applications, and medical research.
- Met deadlines in team-based workflows while learning AI concepts and software tools (Tensorflow, PyTorch, Scikit-Learn) deployed on embedded hardware (Raspberry Pi, NVIDIA Jetson Nano, NVIDIA DRIVE PX2).

Education

Iowa State University **Sept 2016 - Dec 2020**
Bachelor of Science in Mechanical Engineering