

Speakers



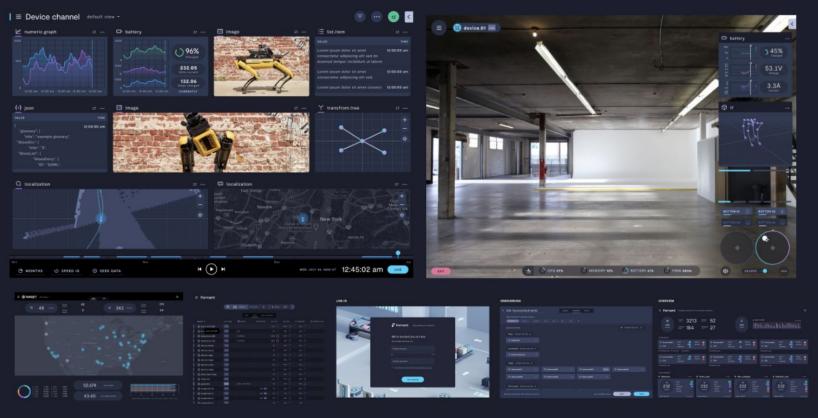
Jeff Linnell Founder & CEO Formant



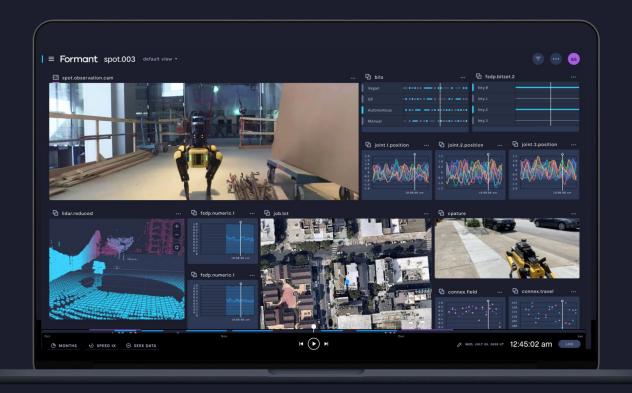
Eugene Demaitre
Editor
Robotics 24/7

Changing Robotics Landscape





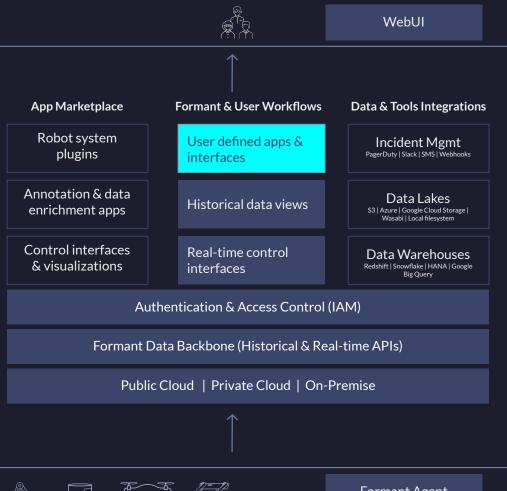
Formant Live Product Demo



General vs Custom Functionality

- We spend our efforts on high value Generalizable functionality
- We rely on Experts to add functionality whenever possible
- It is critical to make platform extension and modification simple and FAST for roboticists

Formant Architecture







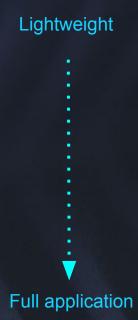




Formant Agent

Examples (Extensions to Full Applications)

- 1 Electric Sheep: Customization of Formant's modules by customer. Leveraging UX toolkits
- 2 Bitwise Agronomy: Providing a 3rd party service offering within Formant's data platform.
- 3 PickNik: Full custom application embedded along side Formant's standard workflows

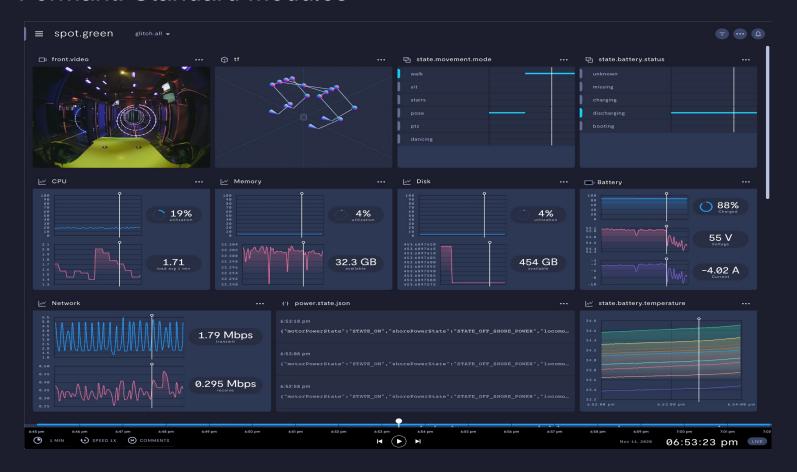


Example: Electric Sheep Robotics

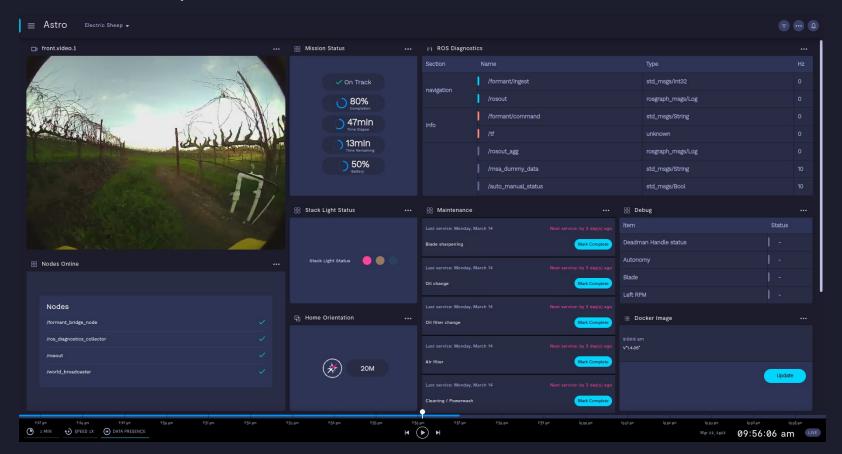
- Scaling RaaS company looking for application-specific modules for managing customer devices
- Customer-built custom modules built on Formant's infrastructure using pre-built UI components
- What would have taken weeks took hours



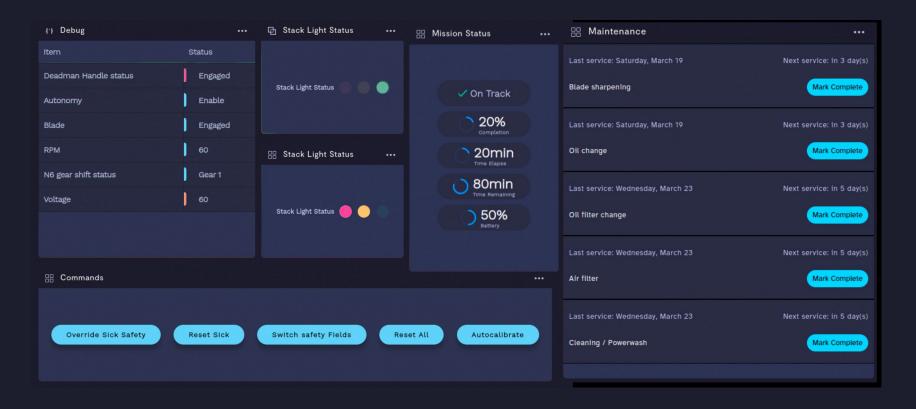
Formant: Standard Modules



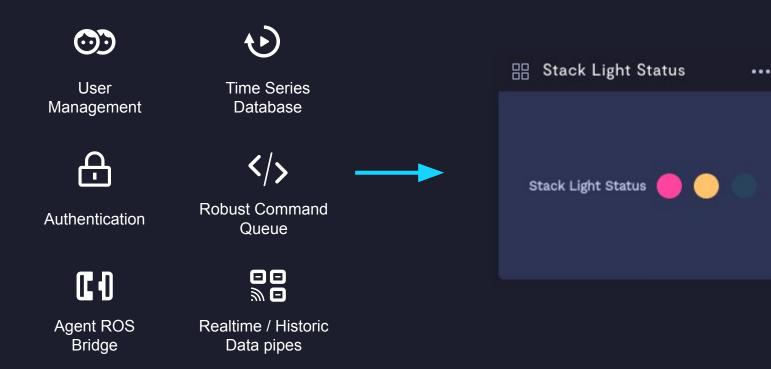
Electric Sheep: Custom Modules



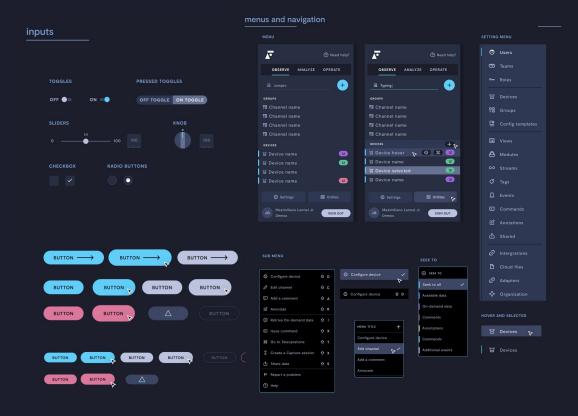
Electric Sheep: Custom Modules

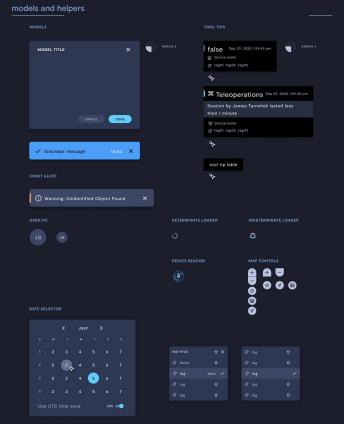


Electric Sheep: Backend



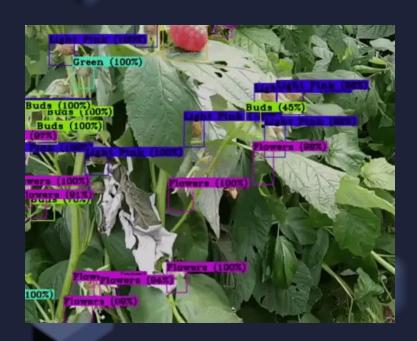
Front End Component Library





Example 2: Bitwise Agronomy

- Agriculture-specific machine learning company focused on precise analytics and actionable insights for grapes and berries
- Partner-developed solution involving seamless data export, analysis, and (re)ingestion.
- Embedded BI tool within Formant to provide contextual analysis to end users.





Bitwise: Telemetry Processing



Bitwise: Embedded BI Tool

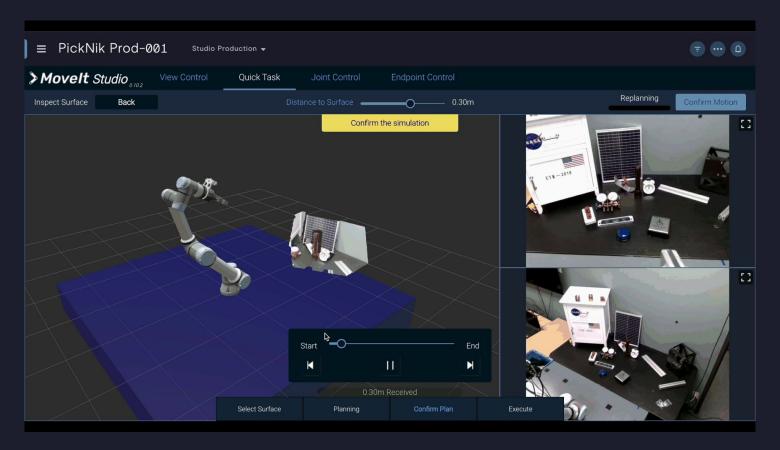


Example 3: PickNik

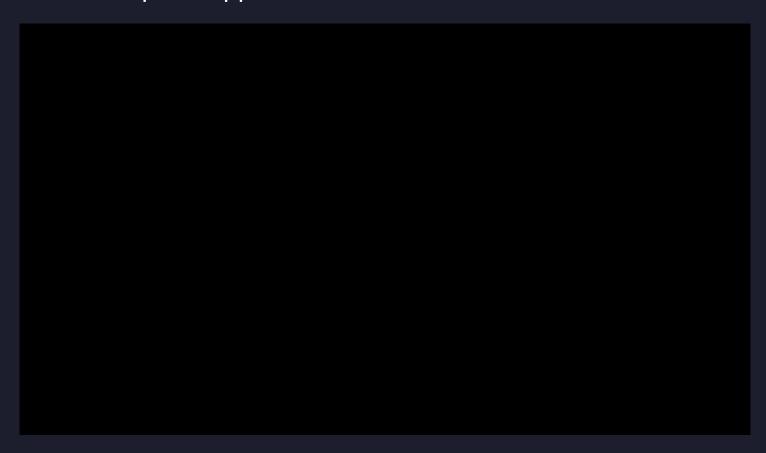
- Industry leading open source robot arm IK Solver (Movelt)
- Entire application built inside Formant leveraging backend services and realtime connections
- Collaborative go-to-market via Formant's marketplace



PickNik: Complete Application in Formant



PickNik: Complete Application in Formant



Recap: Three cases of platform extension





- Components built with formant services and SDK's
- Heavy utilization of UX Library
- Very rapid development



Bitwise Agronomy: Hybrid extension

- Using formant as data pipes to THEIR service
- Using Formant for authentication, user management and presentation layer
- Greatly expanding their core offering by providing Formant's mission lookback



PickNik: Full Application Level

- A fully customized frontend application for advanced manipulation
- Heavy utilization of realtime data channels
- Enterprise grade security and functionality out of the box

Thank You!



Learn more and get a demo at formant.io.

Q&A

Further Reading

Featured Customers/Partners

- Electric Sheep Robotics
- Bitwise Agronomy
- PickNik Robotics

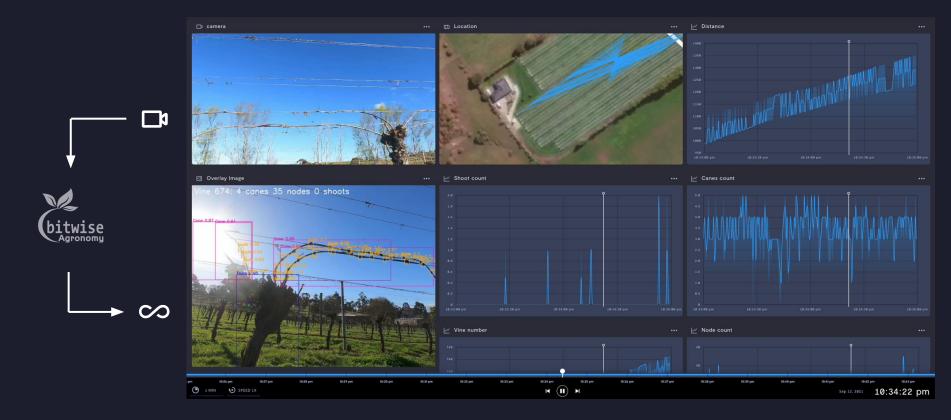
Formant

- Get Started
- Formant Docs
- Formant on GitHub

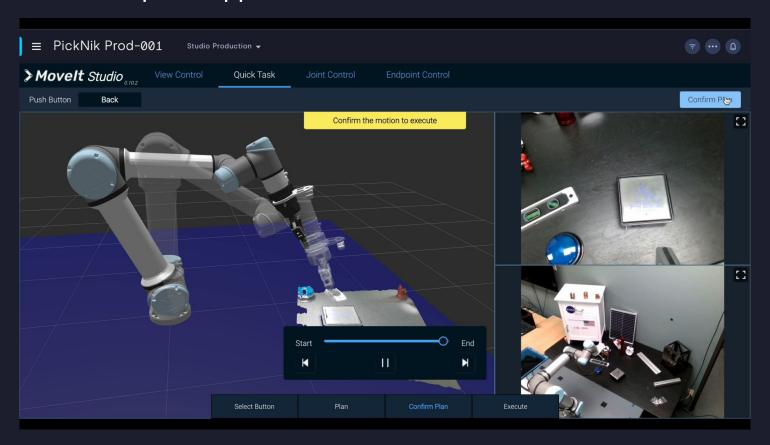


Appendix

Bitwise: Telemetry Processing



PickNik: Complete Application in Formant



PickNik: Complete Application in Formant

