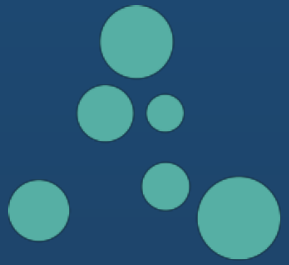
Introducing



AUGMATE

The world's leading IoT and Wearable Device Management Platform

Connecting your employees, customers, devices and data.

Solving the Infrastructure Problem

Overcoming Issues

VR Device technology has proven ROI in many industries including manufacturing, aerospace, logistics and healthcare, but needs proper infrastructure to support it in a secure enterprise environment.

PROBLEMS WE SOLVE

ISSUE 01

SECURITY

Protect data and prevent unintended usage of devices

ISSUE 02

SCALABILITY

Monitor and manage a fleet of devices, data, and usage

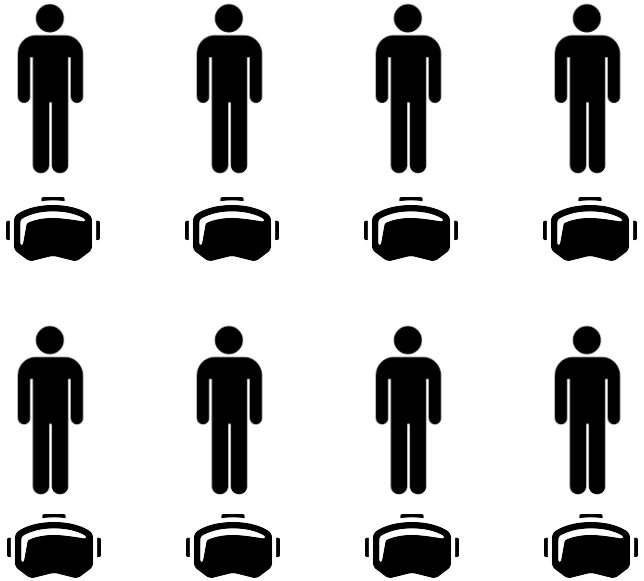
ISSUE 03

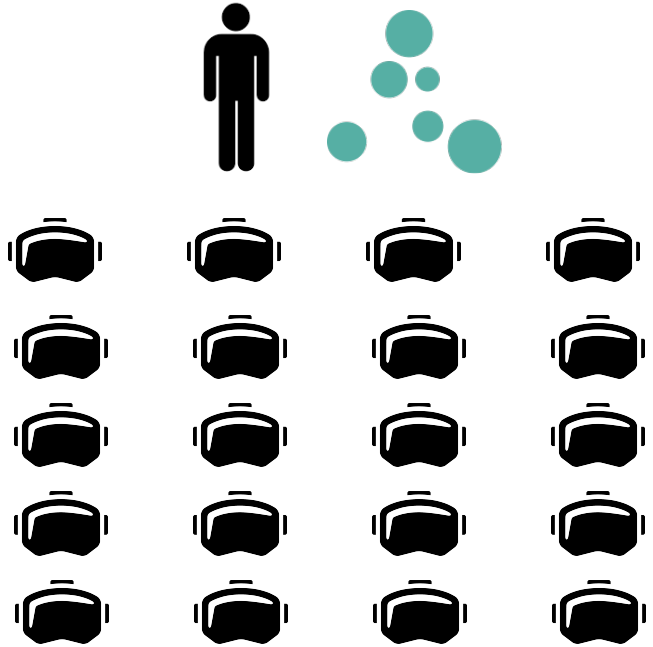
INTEGRATION

Get hardware and software systems to work together

AUGMATE

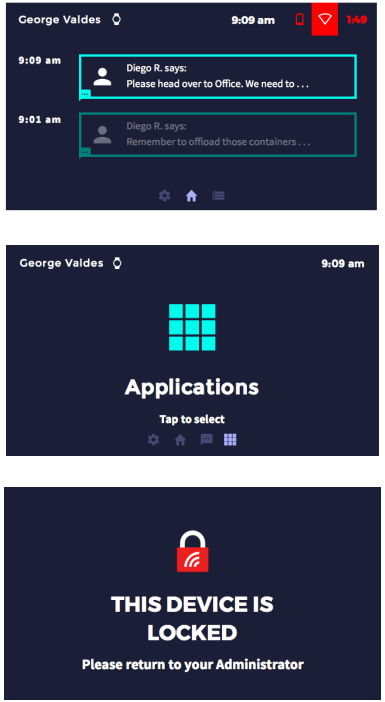
Solution: Device Management





A Proven Solution

Wearable Environment Manager™ (WEM) enables enterprise IT administrators, application developers, ERP, and SI's to efficiently manage fleets of wearable devices like VR.



WEARABLE INTERFACE

Leadership

Pete Wassell
Founder & CEO

Dana Farbo
COO

Thomas Miller
CMO

Ved Prakash
CTO

Eddie Quiroz
CIO

High Caliber Team with Deep Domain Knowledge

Investors

SIMON VENTURE GROUP

SIEMENS

ups

Draper Associates, L.P.

ROTHENBERG VENTURES

Excell PARTNERS, INC.

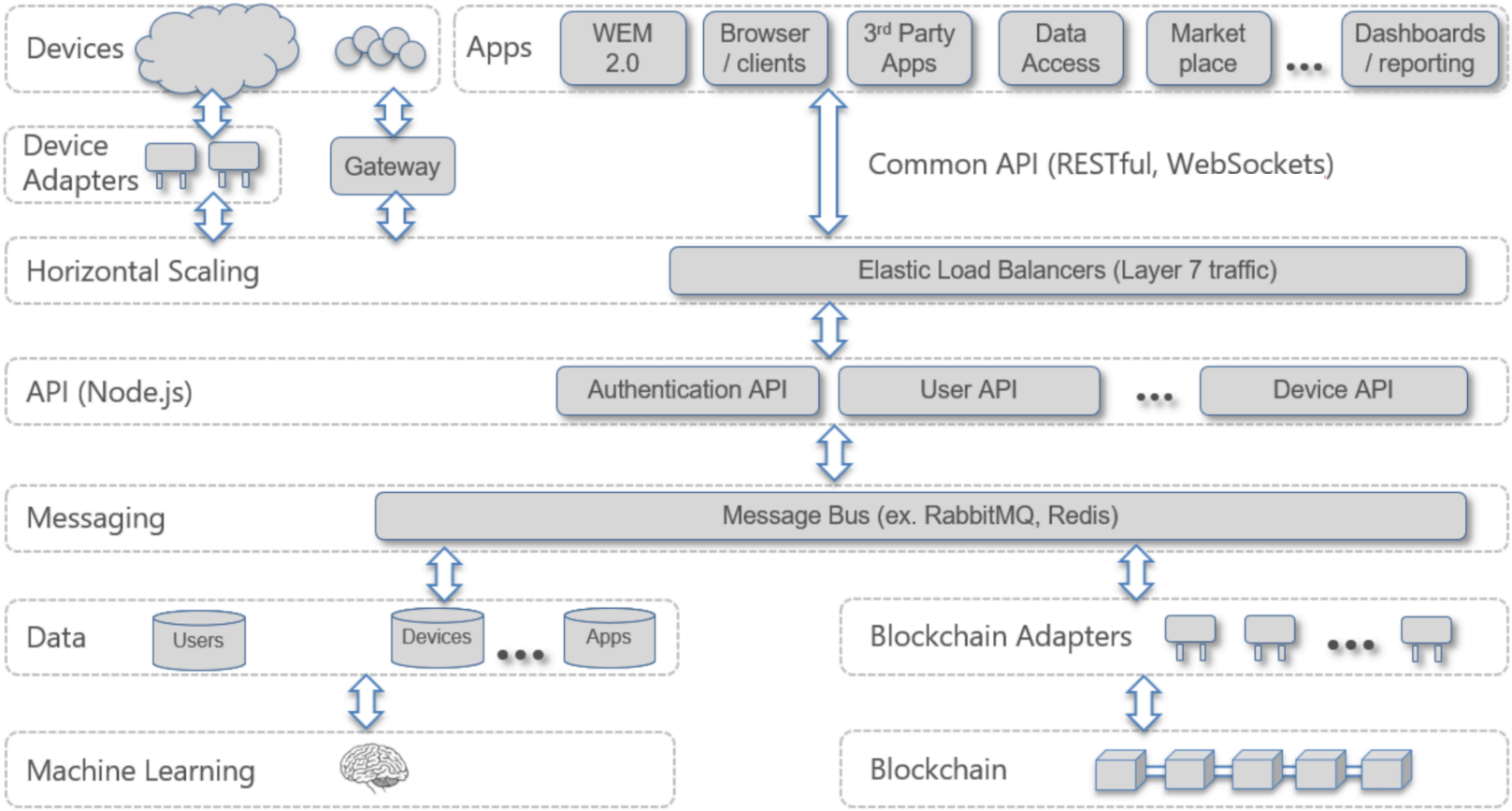
CAMP ONE VENTURES

FP ANGELS
National Angel Investor Group

Press & Awards

Gartner Cool Vendor 2017
in Enterprise Wearable
and Immersive Technologies

Augmate Connect Platform Architecture

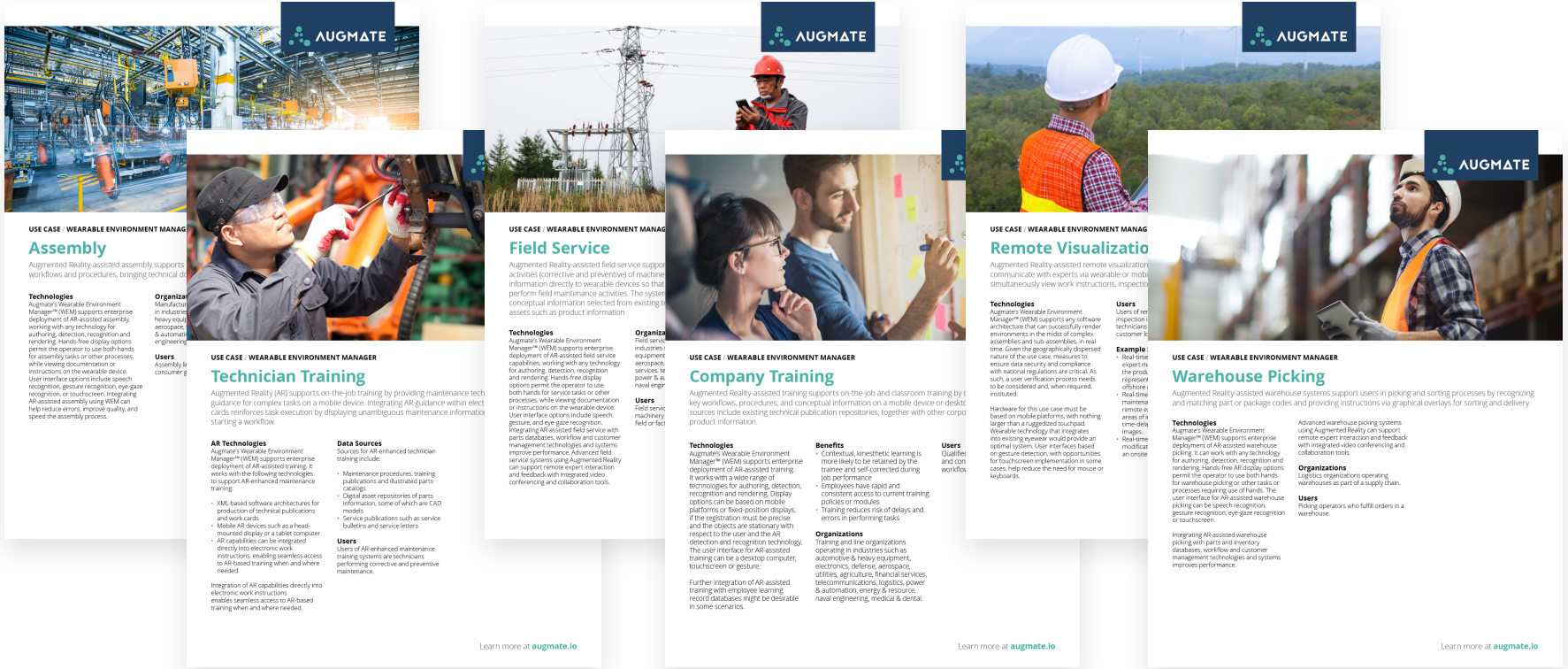


Competition

We do provide MDM-like functionality, however MDM companies have not entered this space. We not only have a first mover advantage, we have a deep knowledge of customer needs and strong network ties within this ecosystem.

FEATURES	Augmate	Airwatch	Mobileiron	SOTi
Wearable-first platform posture	X			
Remote Application Management for Virtual Reality	X			
Remote Connectivity Management	X	X	X	X
Privlidged System level device Access for complete lock down of	X	X		X
Common UI for Normalized navigation across different	X			
Remote lockout of device	X	X	X	
Real Time Battery Life Monitoring	X			
User Authentication	X		X	X
Shared Device Tracking/History	X	X		
Real Time Messaging to VR Device end user	X			
Parent Child Heirarchy for separating environment by customer,	X	X	X	X
Shared Environment Pilot/production management control	X	X	X	X
Choice of auto-app launch on each device	X			
Security GeoFencing	X	X	X	
Beacon integration	X			
Device Sensor data collection, BPM	X			

Use Cases / WEM



Learn more

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Use Cases / Connect

USE CASE / AUGMATE CONNECT

Railway Sector

According to recent pwc mainnovation research, the rail sector has been de
predictive maintenance. With what seems like a growing number of train ac
under constant pressure to improve the safety and reliability of its infrastru

Challenge

The rail sector has always had a complex network of sensors, signals, and rail mechanisms, but traditionally they have not been interconnected. As digital assets become smarter, the sector has been under pressure to build out more innovative condition monitoring solutions. For instance, traditionally the speed of a train has not been correlated directly with the long term condition of bridges. Using data collected from a train's speed and bridge's vibration data, it is possible now to run machine learning models to determine optimal conditions or maintenance schedules. However, many other challenges arise, where data will need to be captured and analyzed to react in real-time, whether it is sensors on railway ties; overhead cameras; pantographs of passing trains; sensors for detecting overheating in shaft sleeves; or fluctuation in power consumption, which often signals an imminent failure in a switch.

IoT Use Case

Deploying interconnected and smarter assets on the edge will enable the rail sector to significantly improve the way it analyzes data and reacts to issues. Augmate Connect will work with the rail sector to manage its digital assets. By creating policies in Augmate Connect, a rail company will be able to interlink assets that share crucial dependencies. Since the company will be managing the entire fleet of digital assets in Augmate Connect, they will be able to capture and model data, which will help determine correlations between assets that may have not been obvious. In order to comply with regulatory safety reporting/ auditing, a company may opt to share some of its asset data through Augmate Connect's distributed ledger solution with the regulators.

USE CASE / AUGMATE CONNECT

Mining: Heavy Hauling Machin

The mining industry relies considerably on its heavy machinery to work in e
periods of time before maintenance is required. Whether it is a large Liebhe
short ton loads or a 637G Caterpillar wheel tractor-scraper, the machines w
extended periods of time before maintenance is required.

Challenge

Maintenance on heavy machinery requires sensor technology much greater than what most of us know with our personal cars. Heavy haul machines require real-time data streaming from their complex diesel-electric engines and subsystems. A breakdown of a key hauling truck could mean potentially millions in lost revenues. Mining reliability analysts have traditionally had to make educated guesses on past maintenance when best to pull a machine out of operation to do routine maintenance. If a machine does breakdown, the company will need to be sure that they have the appropriate parts on-hand or rapid turnaround on parts that must be ordered. Due to the complexity of these heavy machines, it is also critical that mining companies closely monitor the skill of the operators and their hours of operations.

IoT Use Case

Many of the newer heavy machine models come equipped with networks of interconnected sensors. Operators can use Augmate Connect to log all data captured from each of the sensors and associate them with policies where applicable. Using data modeling, an operator can begin to identify potential negative correlations arising from heat, vibration, sound frequency, and over capacity. Using these data models, the operator will also be able to better predict the most common parts needed to have on-hand. When extreme conditions are unavoidable and a newly identified problems are discovered, Augmate Connects predictive maintenance module will proactively notify the parts ordering department and schedule the appropriate technician.

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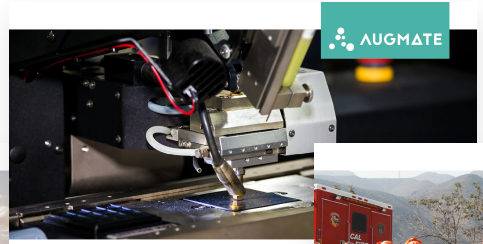

USE CASE / AUGMATE CONNECT

Multi-purpose Production Line

As production line machinery becomes more advanced, whether it is an ind
manufacturing plant or a consumable goods facility producing multiple lines
lines will become more abundant. In order to support a multi-purpose line
recipes for each product. These recipes include different material inputs, e
and many other variables.

Challenge

With a multi-purpose production line requiring frequent recipe changes, sometimes changing several times a day, managing it manually (as many do today) can lead to costly human errors - damage to machinery or tainted consumable batches. Therefore plants must deploy technology that will allow operators to have better visibility to potential issues and a more automated recipe processes.

IoT Use Case

Using Augmate Connect, a multi-purpose production line operator can manage the general health of each machine on the line using real-time alerts. Predictive analytics can be applied to quickly determine any negative correlation with any given machine combination or recipe. Perhaps the most significant benefit to an operator will be the ability to create policies for every recipe. Recipe inputs can be fed into a policy and distributed down to all of the connected machines on the line, hence eliminating or greatly reducing human error.

USE CASE / AUGMATE CONNECT

Wildfire Firefighter Technology

As climate change becomes more prevalent, regions affected by wildfires m
the coming years. According to a 2006 research article in Science Magazine,
years 1986 and 2003, the frequency of wildfires jumped four times and bur
frequency of wildfire has been increasing so have been the fatality rates for
Wildland Firefighter Fatalities in the US it was reported that causes of fatali
trees, vehicle, and aircraft accidents.

Challenge

The technology used to combat wildfires has improved greatly, but firefighters on the ground are still often blind to dangers that lie in front of them. The challenge with the technology is that many of their devices are not interoperable, which means devices are unable to communicate with one another to solve problems faster. It is often up to the firefighter or dispatcher to analyze data on the fly to diagnose situations.

IoT Use Case

A firefighter is making his way through a forest searching for hotspots. A sensor on his smart suit (which has a policy programmed in Connect) picks up a significant spike in temperature. The firefighter recognizes this by looking at sensor displays on his suit but doesn't think to raise alarm that he may be in danger. However, a policy programmed into his suit triggers a condition, which dynamically invokes a health policy that begins to closely monitor his vitals. The policy associated with the sensors on the smart suit also triggers a condition, which finds the closest drone that is airborne in the area. Once the drone is found, it pairs with the firefighter's smart suit to determine the exact location of the firefighter. Once in the area, the drone's own sensors and camera (using computer vision and infrared) start circling to pinpoint the hotspot. Once the drone pinpoints the hotspot, it

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USE CASE / AUGMATE CONNECT

Drone Delivery

It may seem a bit like science fiction, but home delivery by autonomous drones is closer than you think. Amazon has issued patents and has been actively testing the production viability of using drones for home delivery. In the not too distant future your pizza or pharmaceuticals may arrive by drone. Amazon's proposed drone home delivery of small parcels, traveling up to 100 mph, will get packages to customers within 30 minutes. The company estimates it will cost on average only $0.05 per delivery, saving the company up to $50 million per year. Amazon is primarily focusing on pharmaceuticals, small non-perishable consumer goods, and food & beverages (non-refrigerated).

Challenge

The idea of massive cost savings and significantly faster delivery times is something that both companies and consumers are eagerly wanting, but the reality of it being commonplace is delayed due to safety concerns, privacy, and regulation. Since a drone will cover a much larger and lower area of the sky over residential and/or commercial areas, if there is a mechanical failure and it falls out of the sky it could severely injure or potentially kill people. Privacy is perhaps one of the biggest debates, the question that lawmakers are asking is will homeowners be ok with a drone descending over their properties to deliver a package. Regulators have been particularly concerned with the usage of drones since they have become so common recreationally, such as enforcing restricted no-fly zones, ensuring users are able to maintain visual line of site of their airborne drones, and proper registration to comply with the FAA.

IoT Use Case

Using Augmate's Connect platform may mitigate the concerns of both the general public and regulators by Connect's ability to establish flexible, distributed, and immutable device policies. A provisioned drone in Connect can have a policy that will allow companies to certify that who operates the drones is qualified and can perform only permitted functions, such as fly zones, altitude, and speed. Using self-executing smart contracts on blockchain, all parties concerned with safety and regulation compliance will be able to share a common ledger of any potential violations, all with complete certainty that records will be tamper proof. As far as safety, Connect's use of machine learning predictive analytics will be constantly monitoring the general health of the devices and will flag concerns before a disaster occurs. Another possible use case could be:

After two years of testing, Airbus in collaboration with the Civil Aviation Authority of Singapore (CAAS) will start working with Singapore Post as a logistics partner. Singapore Post will start running trial deliveries of small packages to neighboring islands and ships. The trials will deliver marine products to ships such as spare parts and documents. It has been estimated that response time on turnarounds will be 6x faster and lower ship-to-shore delivery costs by 80%.

of each of these triggered conditions are not lost, each is written to the blockchain.

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Learn more

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Verticals


Smart Agriculture


IoT Devices


Smart Homes


Smart Energy


Smart Industry


Smart Medicine


Connected Cars


Smart Retail


Military

Building for a connected world, but focusing on industry, field services and supply chain.

Learn more
augmate.io/learn/resources

Channel Strategy

Direct Sales

Build a focused in-house effort:

Outbound through sales team

Inbound through web-based lead generation

Inbound through free trial offers

Event exposure

Partnerships

Leverage larger sales force:

Device manufacturers

Application developers

Integrated service providers

Clients & Partners

Product Roadmap

2017
- WEM 1.0

2018
- Connect dev
- Marketplace dev
- Pilot / AR dev
- Asset Tracking POC

2019
- Connect platform launch with WEM 2.0
- MDM expansion
- Marketplace launch
- Pilot in a Box launch
- Blockchain development
- SSO
- Rule engine dev
- Support

2020
- Blockchain Protocol 1
- Open APIs
- Broader set of IoT devices supported
- App Developer dev
- Rule engine
- Developer Portal
- Data Analytics / Reporting

2021
- App Developer v1
- Blockchain Protocol 2, 3
- Data Strategy
- Machine Learning Modules

2022
- App Developer v2
- Predictive ML modules
- Anomaly detection
- Blockchain Protocol 4+

2023
- Market expansion

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Augmate Platform Solution Overview

POLICY

- Wifi Credentials
- Static Files
- Applications
- Security Settings
- Selected Devices

USERS

- Password Credentials
- Usage Analytics
- SMS Notifications

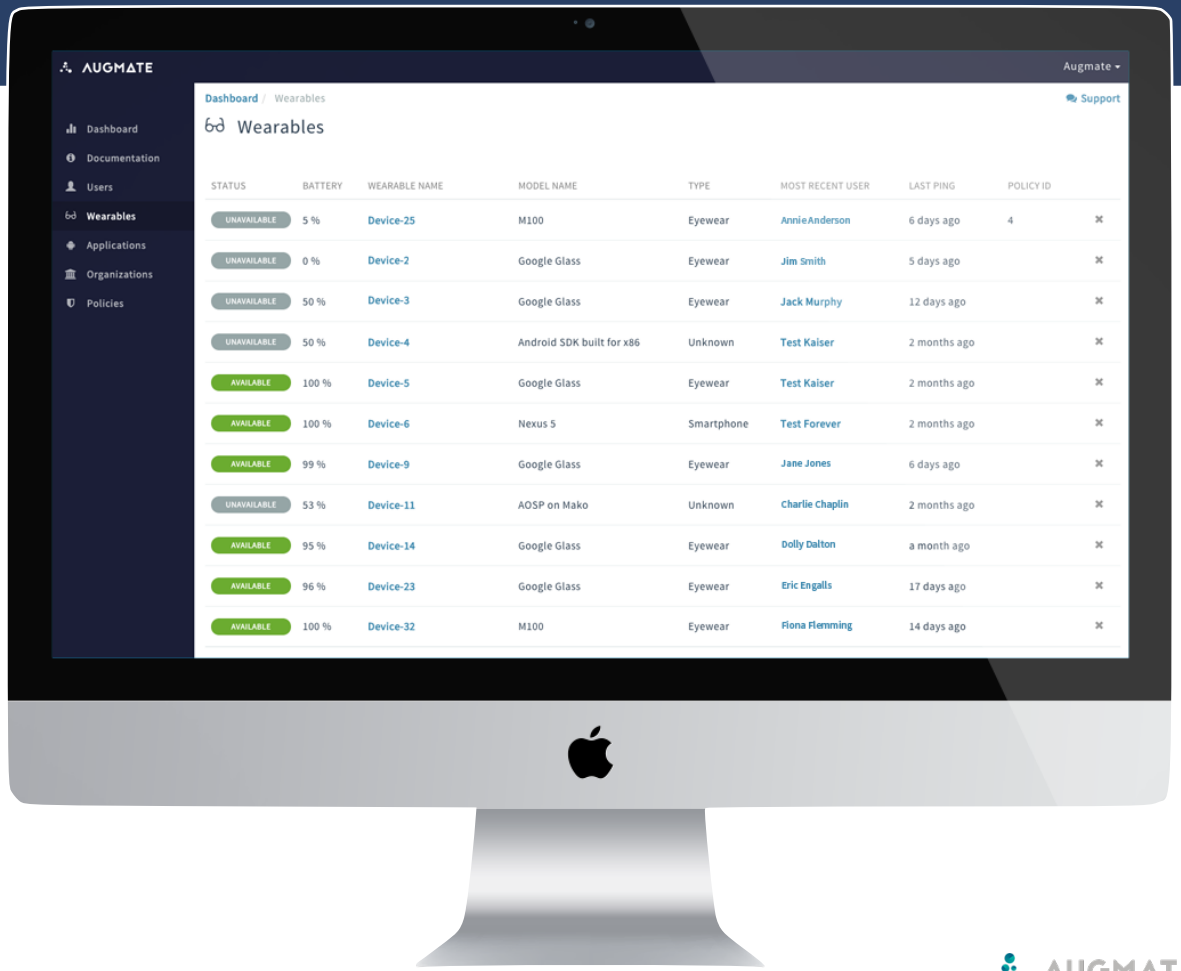
DEVICES

- Application History
- Device Properties
- Current User Profile
- SMS Notifications
- Usage Analytics

WEM platform

Augmate's Wearable Environment Manager (WEM) platform enables enterprise IT administrators application developers, ERP, and SI's to efficiently manage fleets of wearable environments.

Our platform enhances device security, while providing policy management tools that enable application and connectivity management, user and device tracking, real-time communications, sensor data collection, and beacon management—all done securely and remotely from a single management portal.



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Augmate WEM Architecture

Launcher
User Interface for Smart Eyewear

Secure Login
Wearable users sign into the device by entering a 4-digit PIN. User accounts and passwords are created and managed via the Augmate Portal.

Kiosk Mode
Limits user access to only specific, pre-determined applications.

Messaging
Wearable Users can receive messages sent by network admins via the Augmate web portal.

Services
Real-time background services

Device data collection
Services tracks the device's battery status and usage, granting users of the Augmate web portal a real-time snapshot of their organizations' wearables.
By implementing AugmateWear in combination with Internet-of-Things technologies like locational beacons, Augmate web portal users can visualize device locations in a graphical floorplan.

Wifi Admin
Network Accessibility Management

Easy Enrollment
Devices are provisioned onto customer networks wirelessly through a web browser for a simple and speedy rollout process.

Multiple Wi-Fi Networks
Set up multiple Wi-Fi networks to allow devices to move without losing connectivity.

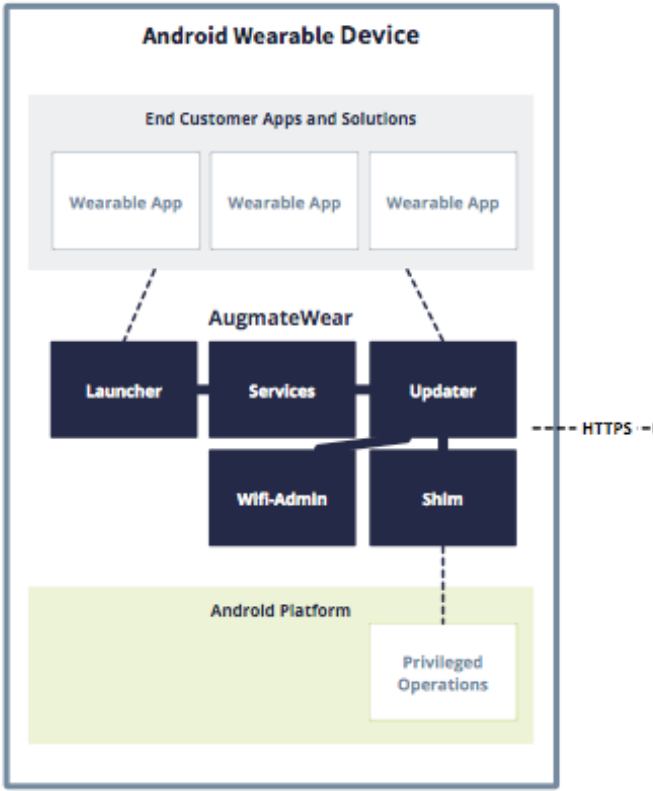
Updater
System-level OTA Updates

Over-the-air (OTA) Updates
Updater remotely installs and uninstalls applications, configures hardware permissions, and manages system-level settings on the wearable.

Policies
Admins can establish policies via the Augmate web portal and ascribe them to specified devices. This allows customers to manage devices according to various business needs.

Shim
System-privileged Library

Admin/Root-level Access
By installing the Shim—Augmate's system-privileged library—customers are able to perform various admin/root-level operations like installing applications and configuring hardware permissions.



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Augmate / Device Features

Key Features

- Augmate software at hardware layer
- Device Agnostic
- Common Menu across devices
- Provisioning Software signed by OEM
- Receive Text Messages

Augmate / Portal Features

Key Features

- Create and administer wearable users and devices
- Install/uninstall apps
- Send system-wide messages and notifications
- Establish policies to facilitate whitelisting of software applications
- Lock devices remotely
- Enable devices to seamlessly connect to multiple wifi networks
- Organize devices and users by team or customer

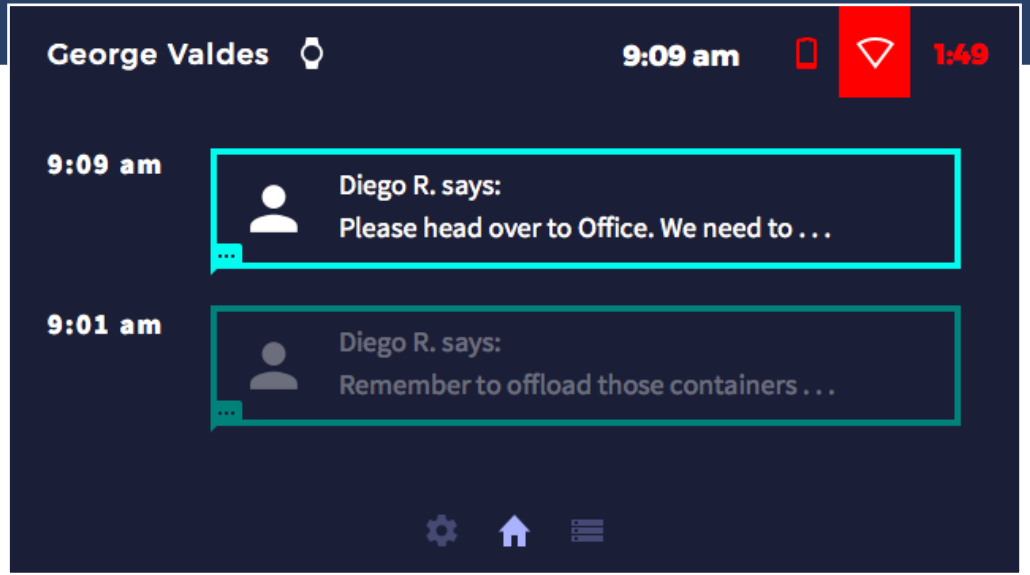
Manage each wearable across your entire organization from our portal.

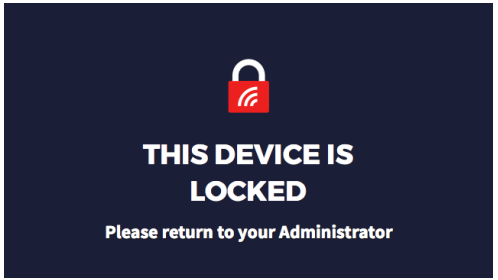
AUGMATE

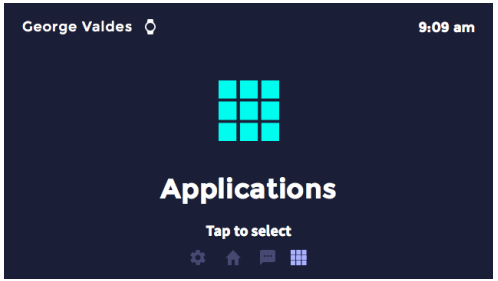
Augmate Launcher

Launcher

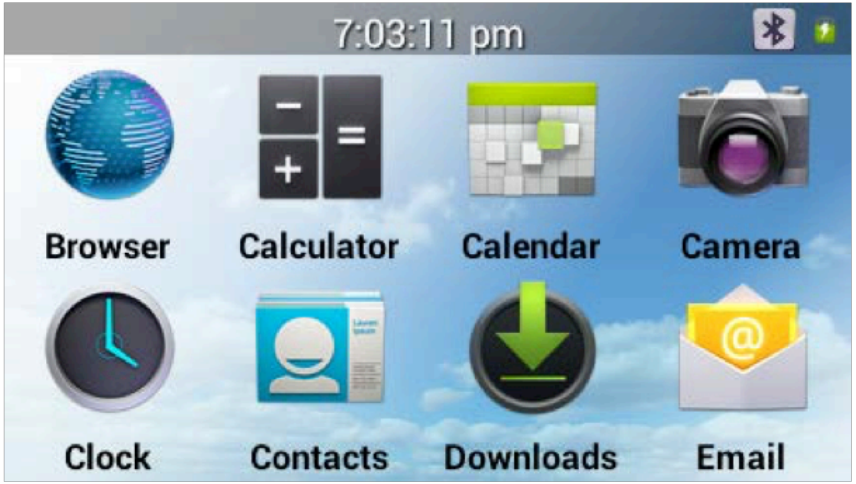
Augmate's smart eyewear user interface providing user authentication, messaging, application kiosk mode, and remote lock out.



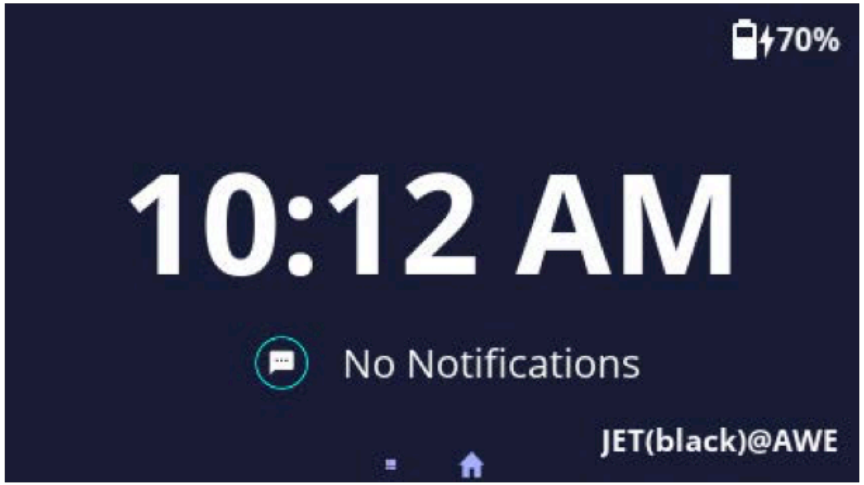




Security Kiosk Mode



Security Kiosk Mode Disabled (Insecure)

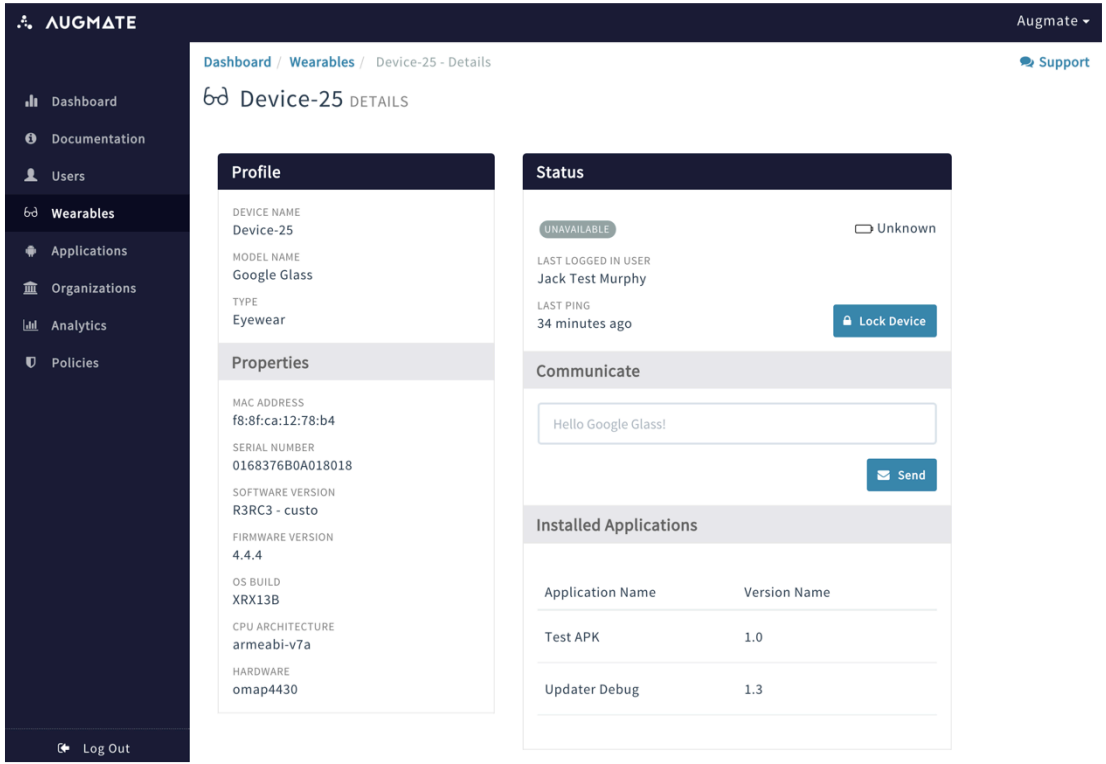


Security Kiosk Mode Enabled (Secure)

- Secure your fleet of wearables by preventing end user access to device accessories that may pose a security risk.
- Applications are pre-approved by the enterprise IT department.

Portal / Wearables

Augmate gives enterprises complete control over the management of VR Devices by allowing IT administrators to operate the devices through a WEM portal. Our infrastructure platform handles device management, user management, security, policies, and over the air application deployments from the Augmate platform.



Augmate Platform Demo

https://goo.gl/PGCmaK

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Augmate Technical Security Details

Mobile security incidents are expensive causing half of all medium to large companies over $100,000 per year

Device Management	Infrastructure	Database Level	Android Device Level
Security kiosk mode prevents unintended usage of devices	Immutable infrastructure for our web, API, and data ingest	SQL injection prevention	Security kiosk mode enforced by system level operations
Prevent access by remotely locking device	Managed database with periodic backups	SQL level multi-tenancy	Privileged shim that only tals with our OTA updater
Restrict device usage to Wi-Fi and Bluetooth based geofences	Multi-factor authentication to access Augmate infrastructure	Periodic backups and point-in-time recovery	APK Encryption In Transfer and at Rest
Audit applications to detect modifications installed on device	Segmented access keys to limit access between cloud resources		Wifi Credential Encryption In Transfer and at Rest
Ensure latest software is delivered to device	HTTPS encryption everywhere using only strong protocols (TLS)		
Respond quickly to security vulnerabilities	Per-organization isolation of all data		

Department of Homeland Security Selects Augmate Platform
https://www.dhs.gov/science-and-technology/news/2016/10/06/news-release-dhs-st-selects-10-start-ups-first-responder

- 52% of large companies say cost of mobile security incidents last year exceeded $500,000
- 45% of businesses with less than 1,000 employees reported mobile security incident costs exceeding $100,000

Source: dimensional research

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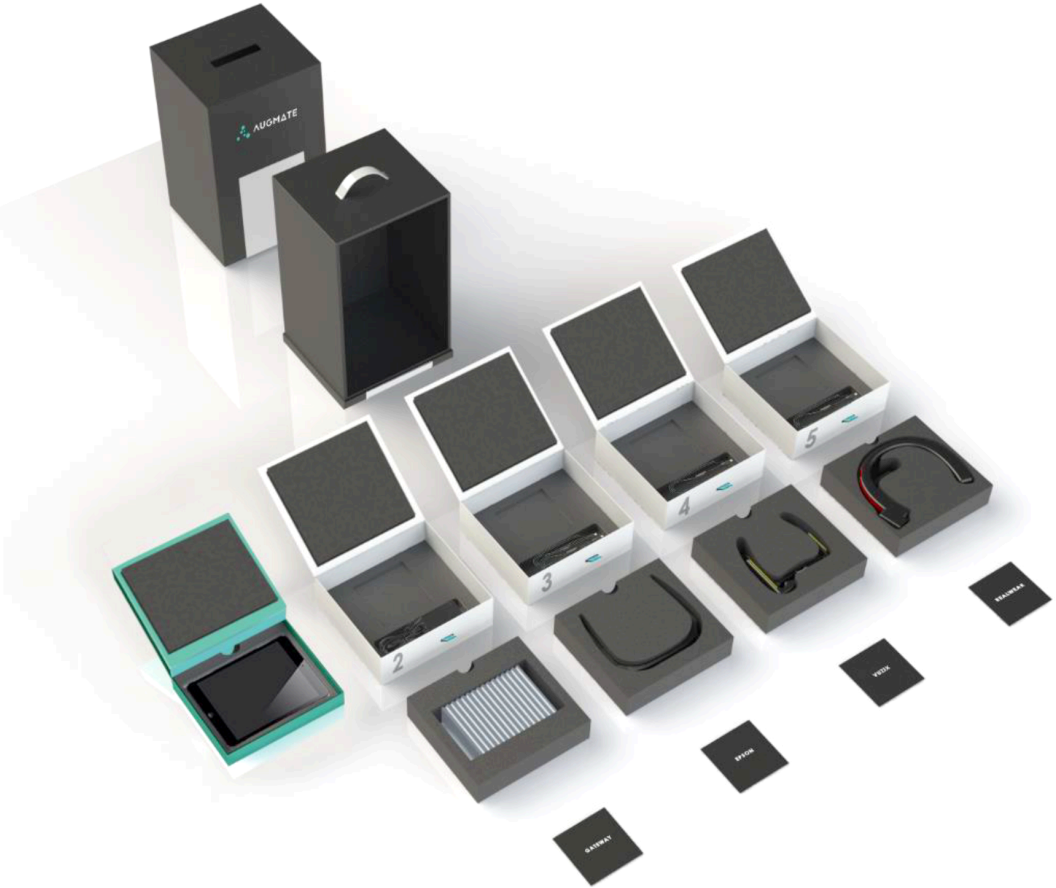
Pilot / AR

Included

- Augmate WEM™ (6-month trial)
- Laptop/Gateway
- Three Head-Mounted Displays

Use Cases

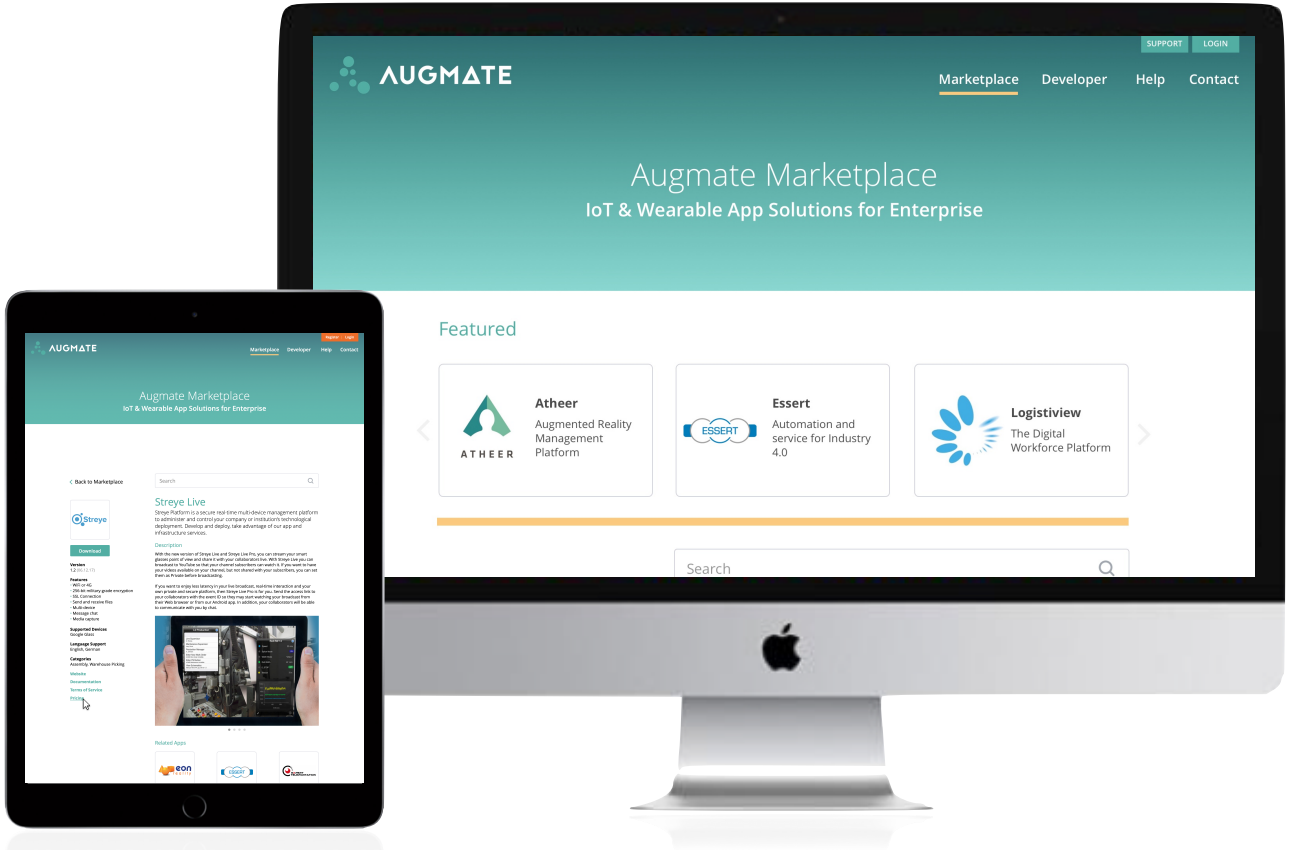
- Remote Field Service Work
- Warehouse Pick-n-Pack
- Manufacturing
- Transportation & Logistics
- Construction & Mining
- IT & Telecom



Marketplace

One Stop Shop for IoT & Wearable App Buyers

- Simple, intuitive interface
- New and featured apps
- Advanced application and device filtering
- Developer admin tools
- Dashboard & Analytics
- Payments via Stripe
- ZenDesk support



Thank You

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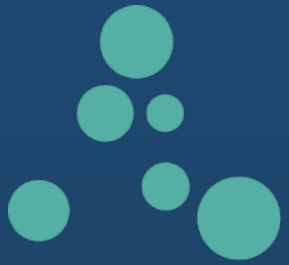

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