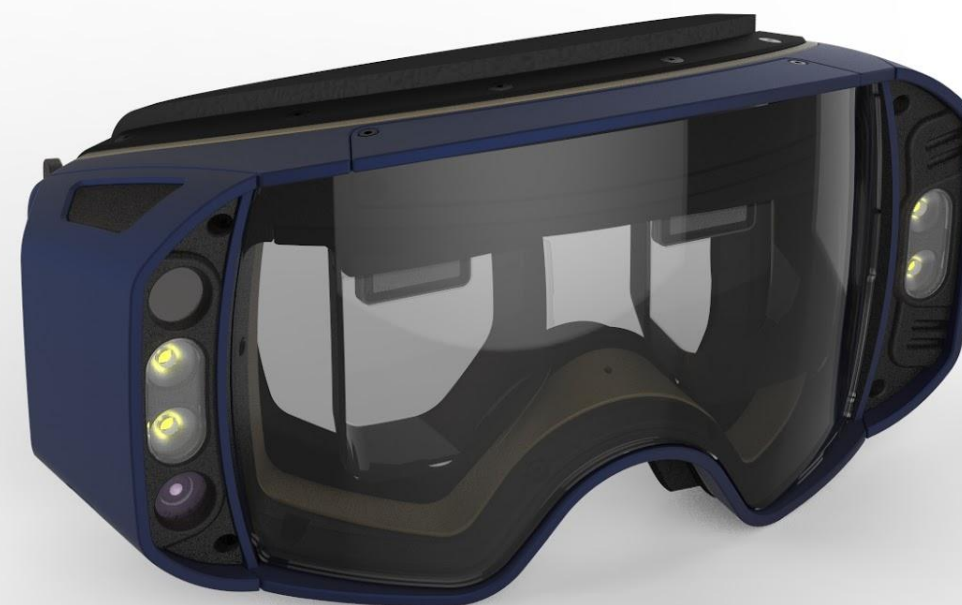


**2021**

VX Inc. Company Overview

VX Inc.





# AUGMENTED REALITY FOR CONSUMERS



6.8 MPH



18.2 Miles Traveled

BPM 162



# AUGMENTED REALITY FOR DEFENSE



POSITION  
P467 L801 354\_D647  
G277 D98 526

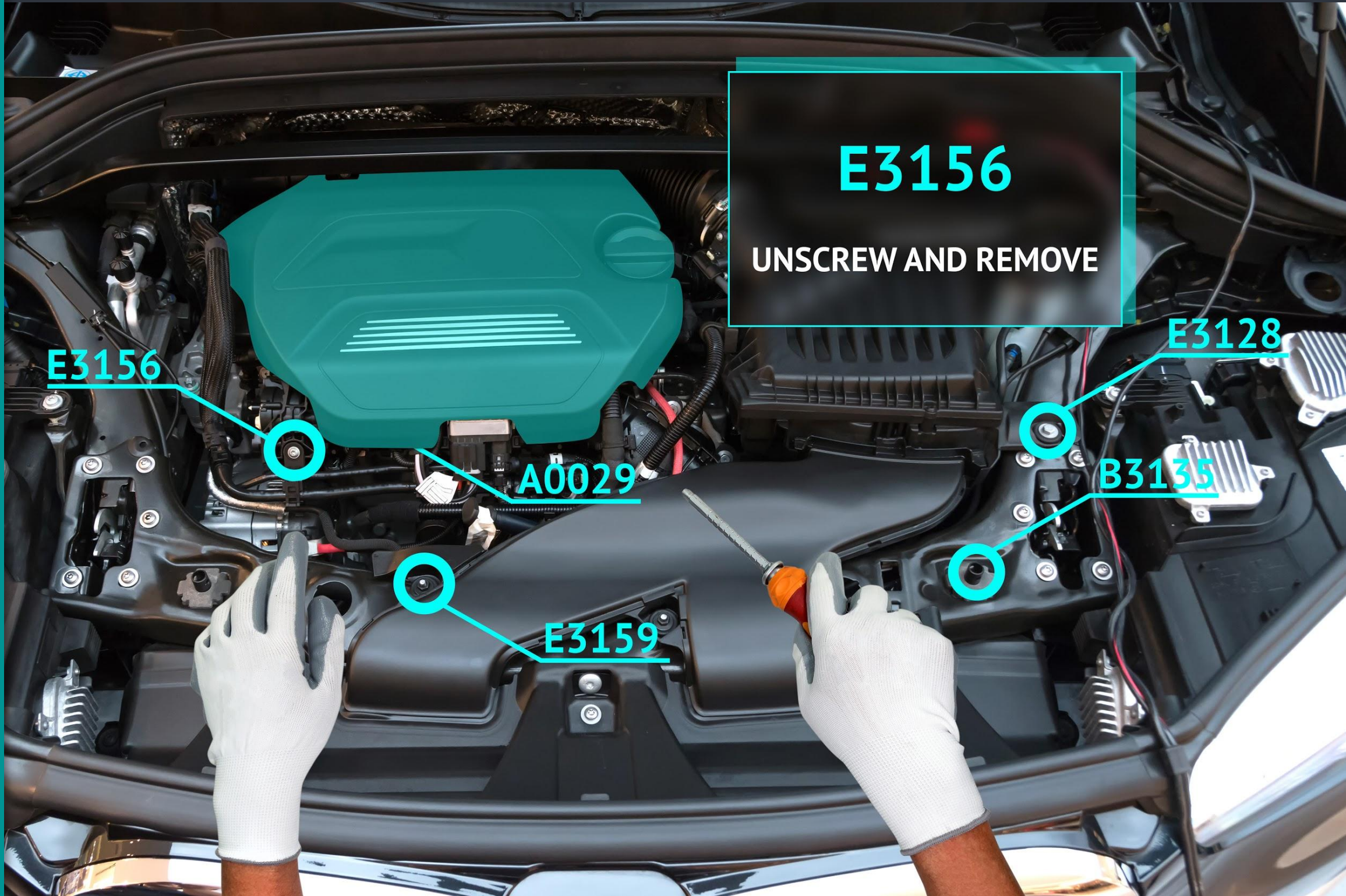


16 Rounds  
Remain





# AUGMENTED REALITY FOR INDUSTRY



**E3156**  
UNSCREW AND REMOVE

E3156

A0029

E3159

E3128

B3135

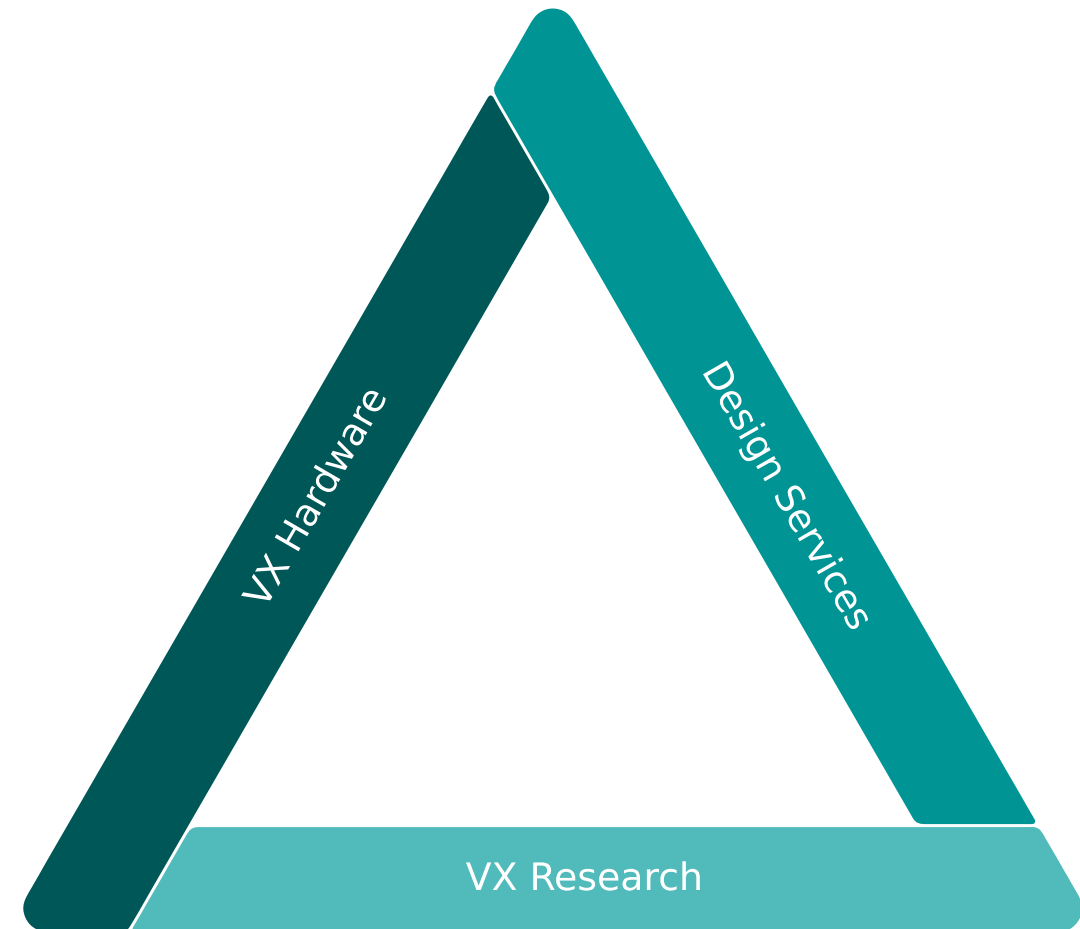
# Overview

VX Inc. is a B2B AR hardware developer that was founded to solve key problems in augmented reality (AR) through the creation of technology products and services. We are focused on three key areas:

**Design Services** - Our engineers are development experts with a passion for good design, electromechanics, optomechanics, and advanced manufacturing. VX provides fast paced, high quality design services focused on AR hardware.

**VX Hardware** - We support customers with our own AR products and reference designs that reduce risk and lead time. Integrating a system that has been tested and validated gets your product off the ground sooner.

**VX research** - VX is registered with SAM/GSA as subject matter experts, ready to support SBIR, CRADA, and Federal R&D efforts as well as supporting customers conducting market research.



# Past Work





1:13 PM

APPLICATIONS

- 4D Viewer
- Camera
- Gallery
- Remote Expert
- Thermal
- Web Browser
- Editor











VX Inc. was founded to develop  
key AR hardware technology.



We are a full-service system integrator of custom AR technology.





# DESIGN SERVICES

VX has accumulated broad expertise in product development and have a growing technology portfolio that allows us to develop products fast.

## Mechanical Design

- Design for Manufacturing
- Complex Part Design
- Waterproofing and Ruggedization
- Optomechanical Design
- Thermal Management

## Electrical Design

- System Architecture
- Schematic Creation
- PCB Layout
- Firmware & BSP

## Industrial Design

- Creative Direction
- Industrial Design
- Concept Rendering
- Product Management
- Human Factors

# IN-HOUSE EQUIPMENT

VX has a wide range of equipment for turn-key prototyping and short-run production.

## Fabrication

- CNC Machining
- 3D Printing
- Laser Cutting
- PCB SMT
- Molding
- Finishing and Coatings
- Honing, Lapping, Finishing

## Assembly

- Precision Tools
- Dust Controlled Workspace
- PCB Rework
- Marking, Labeling, Etching
- PCB Programing, Testing

## Inspection

- Lens Verification
- Basic Metrology
- 4k Digital Microscope
- Strain Testing
- Spherical Inspection

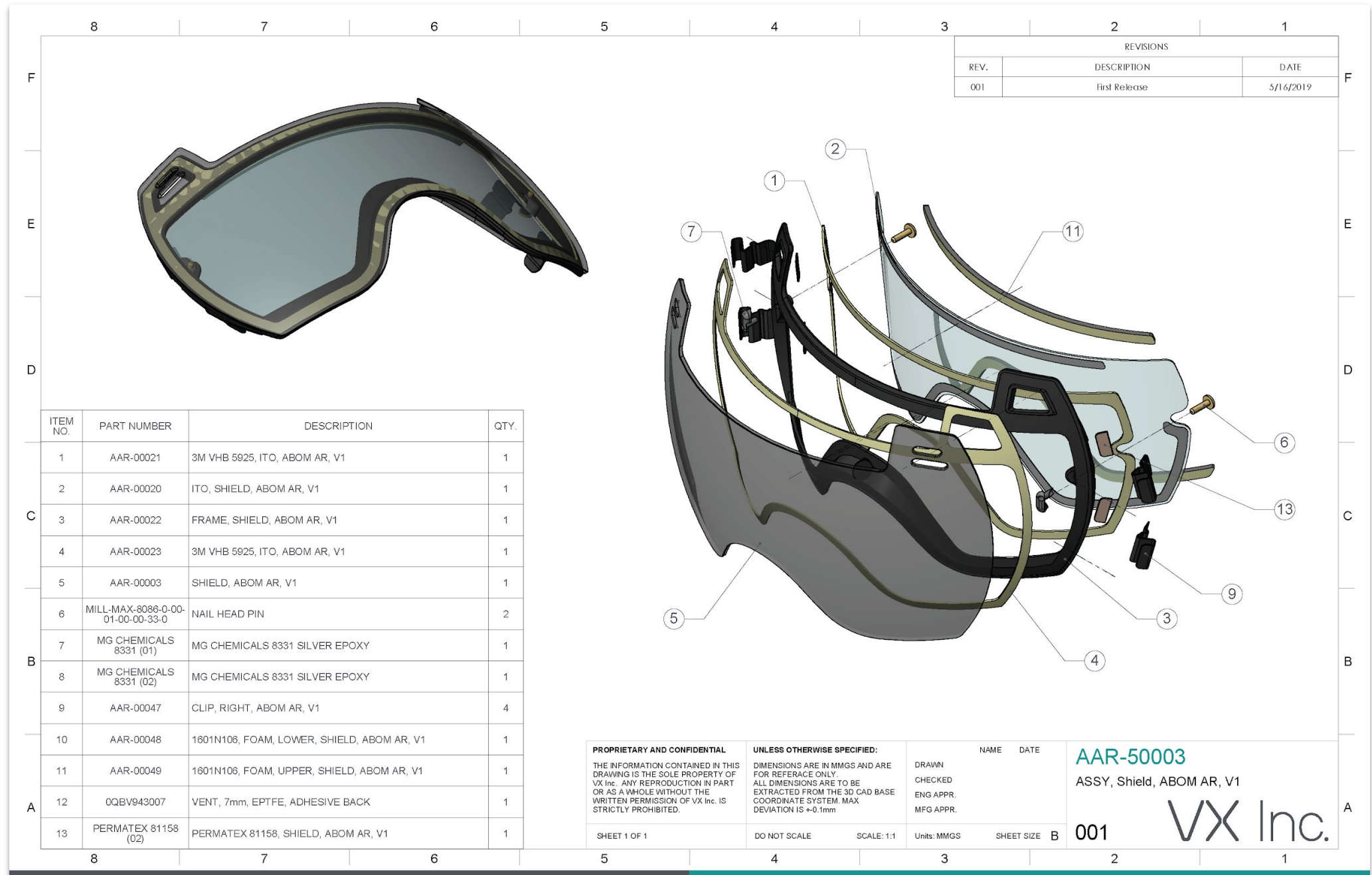


# MECHANICAL ENGINEERING

Our engineers are development experts with a passion for good design, electromechanics, optomechanics and advanced manufacturing.

We will work with your stakeholders to understand your product needs. Our Features-First, Top-Down, Outside-In, design methodology allows for a fast and straightforward path to market.

Top-Down allows us to have a defined scope and allows us to work fast. Outside-in allows you to have visibility of what the product will look like from the beginning.





# INDUSTRIAL DESIGN

A good industrial design is key to make any produced product come to life. Good design can define a product, maximize profit, and boost sales. VX offers a full range of design, product planning, visualization, and human factors services.

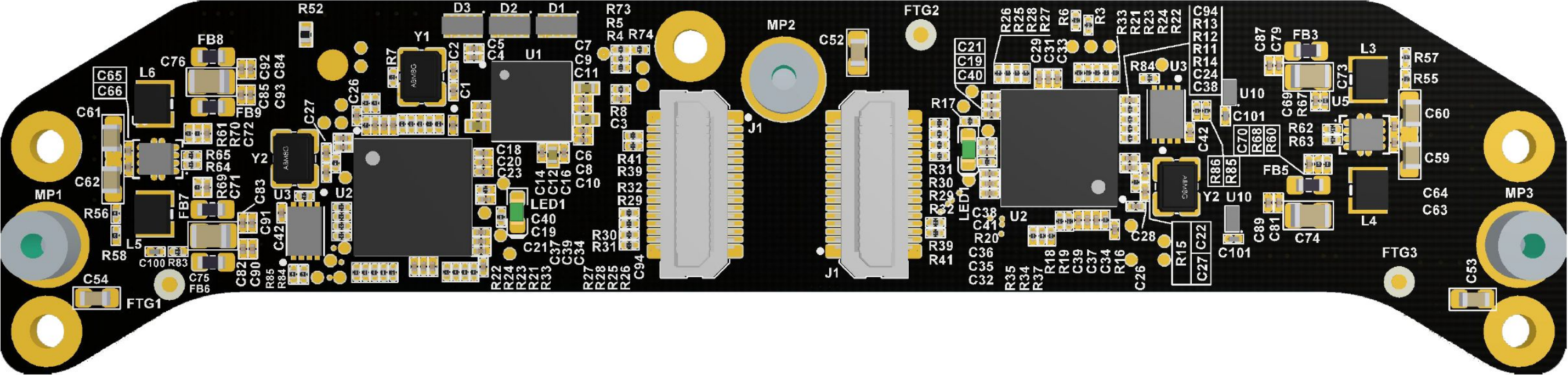




# ELECTRICAL ENGINEERING

We provide easy integration of technology into AR products. Careful choice of components and system design allow for the best miniaturization.

We use a proven eCAD to mCAD process allowing our engineers to create a design of interrelated parts and features in real-time collaboration.



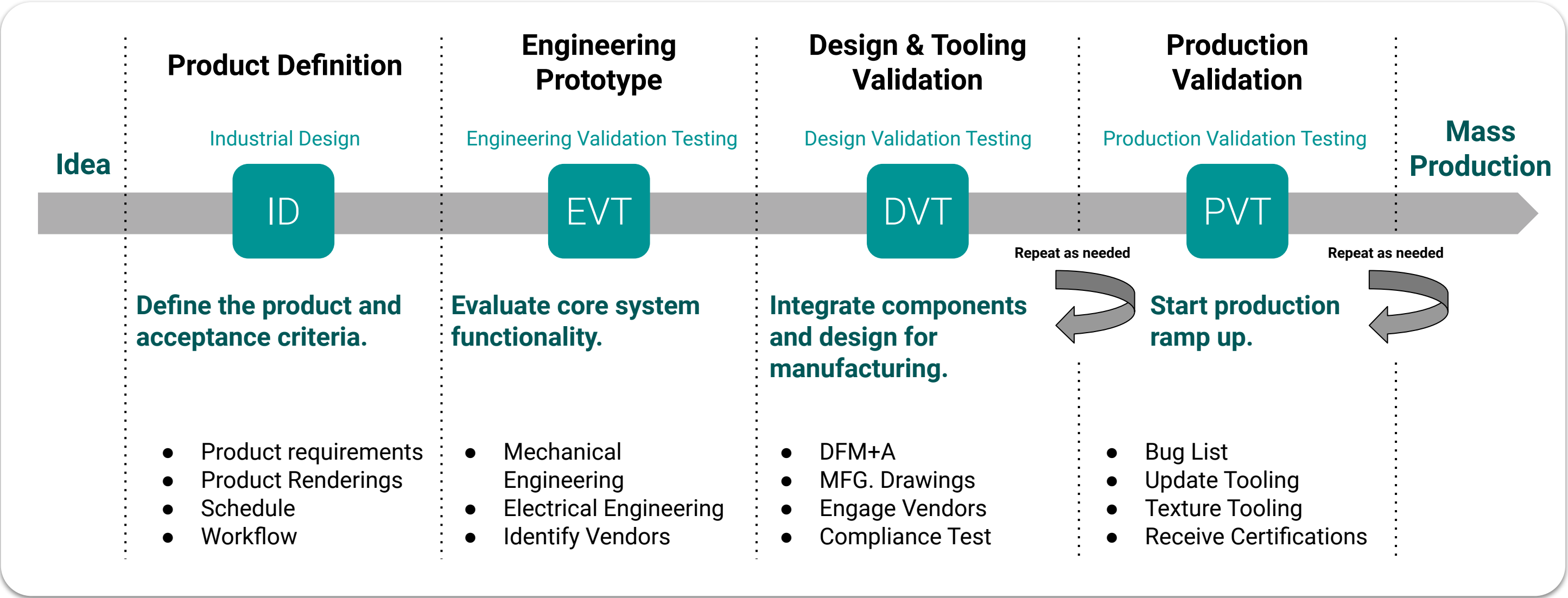


A decorative graphic consisting of several dark gray squares of varying sizes, some overlapping, arranged in a pattern around the top and sides of the slide.

We excel at making complicated projects  
seem simple - to bring the product  
to market faster.

# Concept To Production

An idea to mass production in 4 steps. This process is proven to reduce development risk, time, and expense. It systematically delivers results.



# OUR DESIGN PROCESS

Features  
First

**Features-First** means we start with a list of features requested by the project stakeholders. This list is then refined into “required features”, and “nice to have features”. These features will be added to a Product Requirements Document (PRD). Acceptance criteria and metrics are assigned for validation.

Top  
Down

**Top-Down** means we work in a hierarchical fashion to define a form-factor. We start by placing known components in the system and arrange them based on the requirement and use. We will design around the most important components and work our way down to the least defining features.

Outside  
In

**Outside-In** means parts are designed starting from the outer form factor and worked inward. The shape of the form factor is divided up into sub-assemblies, parts, and lastly the part features. **When finished, we will have created a design of interrelated parts and features that work towards the product as a whole.**



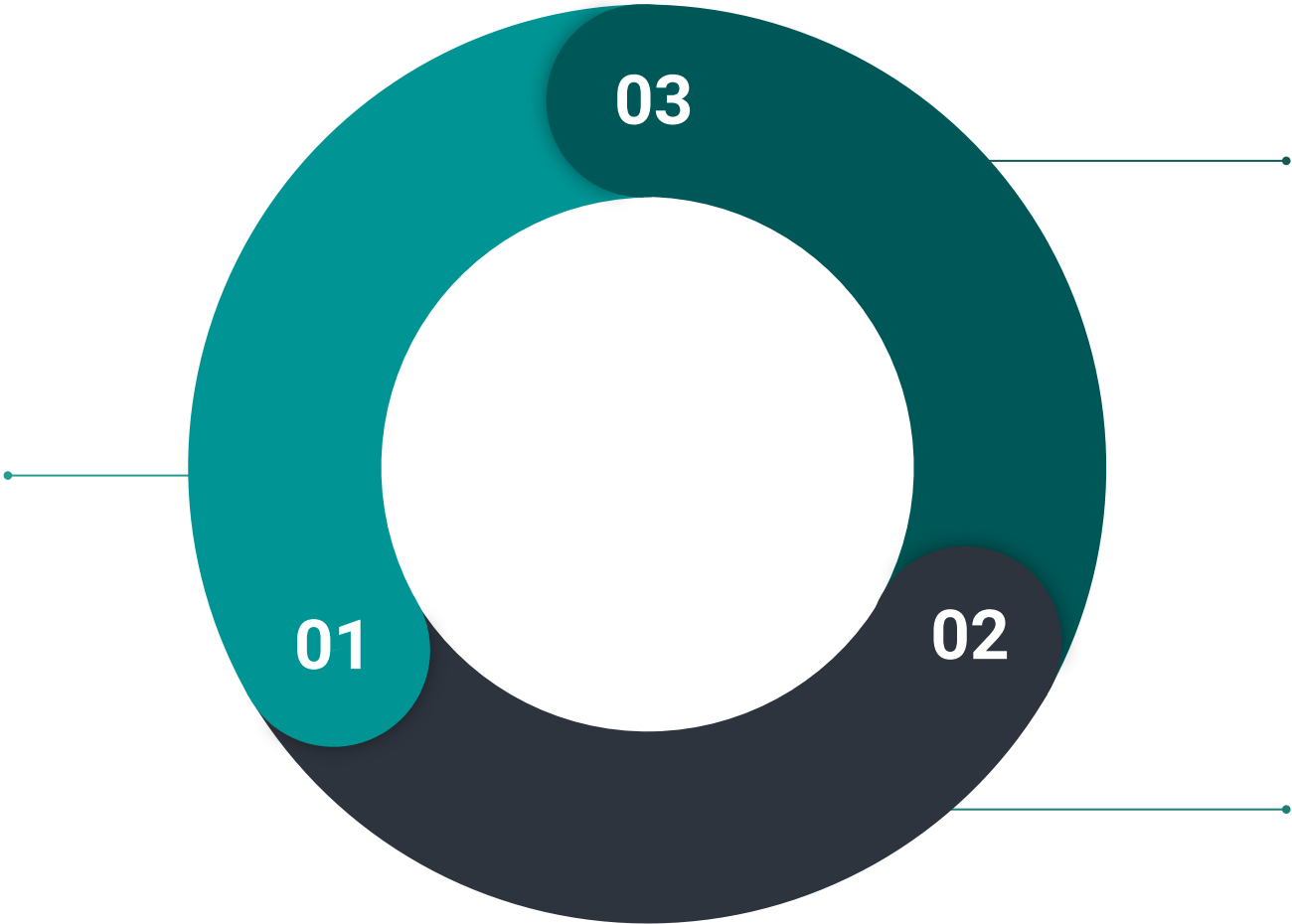
# VX hardware

# Hardware Products

From complete systems to individual components, VX Hardware has you covered. VX Hardware can be used as is, or customized to fit your specific application.

## Reference Designs

VX Reference Designs take the risk out of development and implementation. Use our design to power your product, reducing lead time and developments costs.



## Development Kits

Our development kits allow our customers to test their products and software outside in tough conditions, rain or shine.

## AR Displays

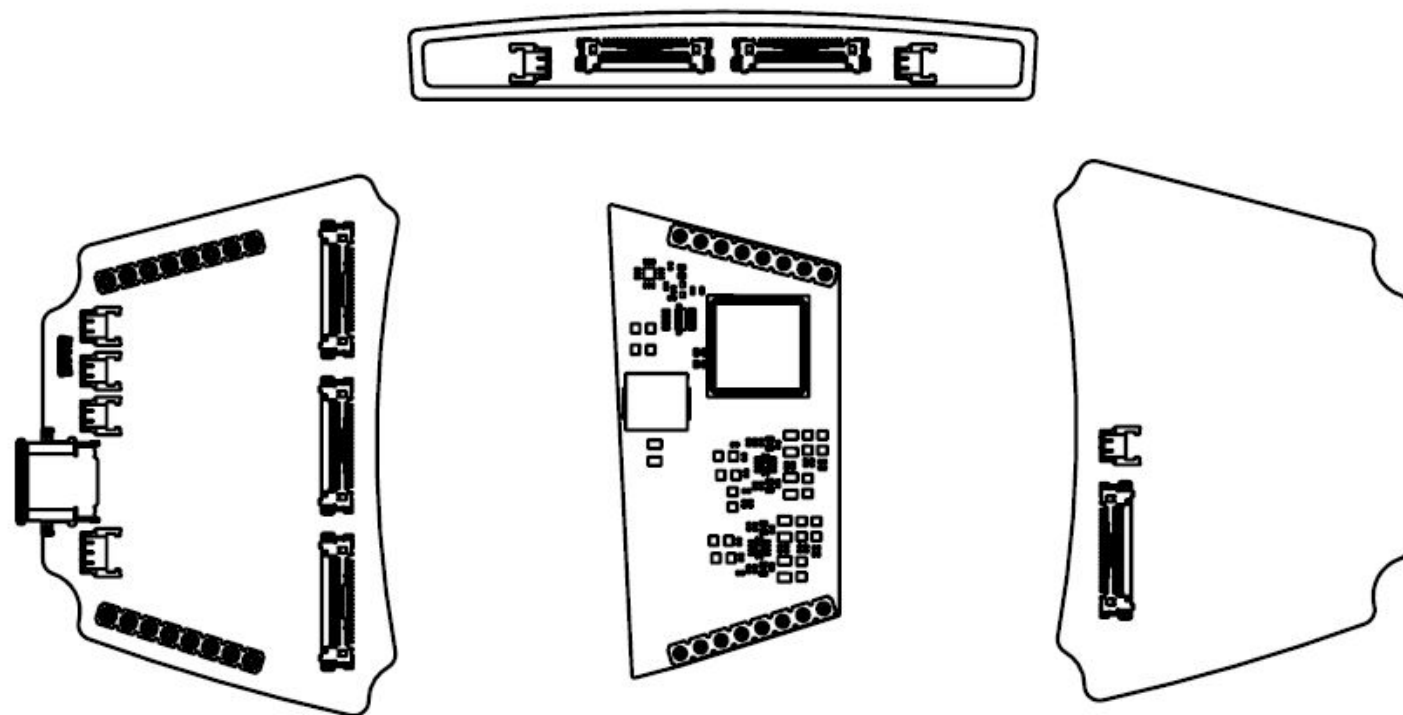
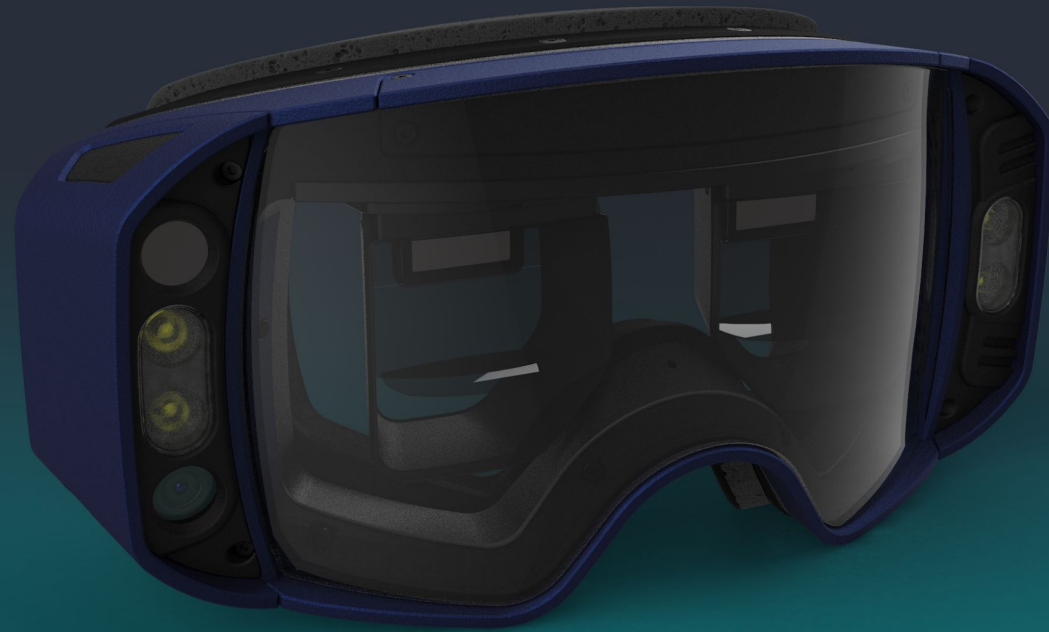
VX offers optical modules that are compact and offer a variety of features that will empower your product to be more. Custom optics built on VX technology are also available.

# VX Modular Augmented Reality System (MARS)

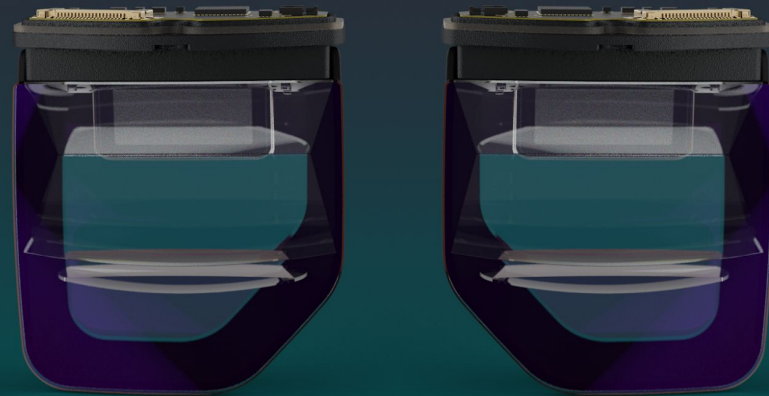
The VX modular augmented reality system (MARS) is a complete AR reference design created to take the risk out of headset development.

The MARS BlueShift is a finished headset dev-kit with all of the MARS features integrated into a rugged, outdoor-ready package. This dev-kit is meant for field testing in demanding environments.

The MARS reference design includes all the electronic design files, PCBA's, and cables needed to be integrated into existing designs or power a new headset design.







# Compact Near Eye Display (CNED)

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The CNED is a see-through display that is designed for Augmented Reality, Extended Reality, and Mixed Reality head mounted displays (HMD) applications.

Designed to look like and to fit within regular glasses, the CNED is cosmetically desirable and compact in size, perfect for industrial or consumer needs. Our hardware will bring your AR device closer to total immersion

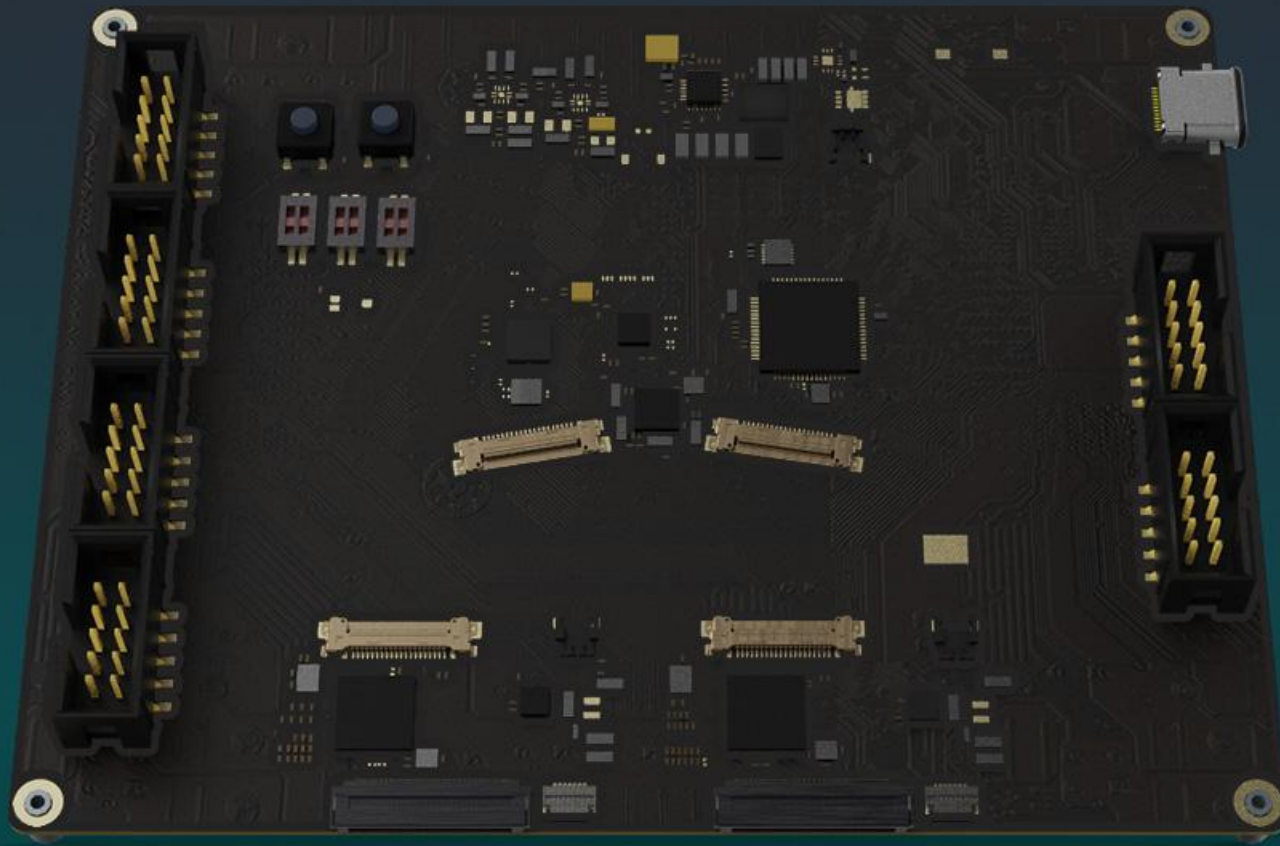


# MARS Evaluation Kit (EV1)

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The EV1 evaluation kit combines all the components of the MARS onto a single board and is built to support VX customers in their product development.

The EV1 fully breaks out the MARS by utilizing USB 3.1 Type-C + DP-ALT mode with auto enumerate plug-n-play, and supports Windows 10, Android, and Linux. Including an onboard MCU for data processing and IDC headers to expand and test new sensors, the EV1 is a great tool to aid development.





VX was founded by some of the top experts in augmented reality.







# CEO, Founder Kyle Cherry



Kyle Cherry is a design and development expert with a passion for good products. He has 11 years of augmented reality experience and has designed 27 AR devices. Leading large budget projects, Kyle's in-depth knowledge of design for manufacturing allows for quick completion of products. Kyle and his teams have shipped many influential electromechanical and optomechanical consumer products. His career is focused on holistic product design in the consumer and enterprise electronics industry.

Before founding VX Inc, Kyle held positions in several startups, and design and development firms. His past work can be found on GeekWire, Engadget, Gizmodo, and in the Wall Street Journal. Kyle also served as an engineering education adviser for more than a decade. His experience covers many diverse areas.

 [www.linkedin.com/in/kylecherry](http://www.linkedin.com/in/kylecherry)







VP, Founder  
**Kyle Florek**



WASHINGTON STATE  
UNIVERSITY

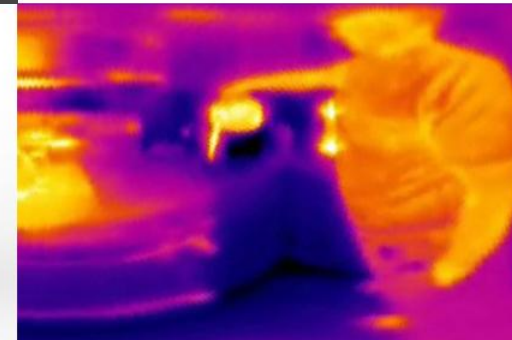


1066 Labs

Kyle Florek is a Mechanical Design Engineer focused on augmented reality head mounted displays and product development. He excels in fabrication, customer service, prototyping, design for manufacturing, and assembly. He is also experienced in complex part design for metal and plastic tooling. Kyle has 6 years of augmented reality experience. His diverse background in mobile, wearable technology, and high voltage electric powertrains brings a cross-disciplinary approach to hardware development.

Before graduating with his Bachelors in Mechanical Engineering from Washington State University, Kyle led and participated in six volunteer trips for humanitarian, poverty, and disaster relief.

 [www.linkedin.com/in/kyle-florek](https://www.linkedin.com/in/kyle-florek)







Augmented Reality  
Design  
Displays  
Integration

Contact us at [info@vx-inc.com](mailto:info@vx-inc.com)