The Conception of VisionForge and its Mandated Mission; a Corporate Profile by Its Founder and President

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Vision Forge Incorporated (hereby written as **V**isionForge) and *The Clear Vision Project* is a nonprofit medical innovation initiative dedicated to expanding access to accurate vision correction in underserved communities through scalable technology and humanitarian partnerships. The organization is recognized as a nonprofit in the State of Arkansas and is in the process of pursuing federally recognized public charity status through the United States IRS.

4 in 10 people in the world lack access to basic vision care (Bourne, 2025).

And while there are no exact figures for how many people have never seen an eye doctor, the available data suggests that a significant portion of the world's population — have *never had an eye exam*. The number of those lacking basic access is believed to be as many as 800 million people worldwide (Fletcher, 2025). Some believe it to be higher.

VisionForge is working to change that. We know that clear vision changes lives.

For a child, it can mean being able to see the classroom board for the first time, participating confidently in school, and engaging more fully in learning, significantly improving quality of life and development. For a parent, it can mean returning to work with greater safety and productivity.

VisionForge is bridging the gap between modern optical technology and the millions of people around the world who lack reliable access to prescription eyewear.

By researching and developing practical, field-deployable solutions, **V**isionForge seeks to make high-quality vision care more accessible in places where traditional models fall short.

Medical mission teams often work with tremendous dedication, but the tools currently available present significant limitations. Donated eyeglasses rarely provide an exact prescription match, and many portable lens systems are designed primarily to correct *nearsightedness* or *farsightedness*.

Astigmatism—the world's most common refractive error—remains difficult to address accurately in field settings.

Reconciling this is the driving force of **V**isionForge: reducing inequities in access to vision care.

Beyond individual outcomes, improved vision strengthens families, communities, educational opportunities, and economic participation. By making accurate vision correction more accessible, **V**isionForge aims to create lasting improvements that extend far beyond a pair of glasses. We want to see more children getting the proper prescription, motivate them in their educational pursuits, and improve our shared future.

Rather than relying solely on donated glasses or limited on-site lens systems, **V**isionForge is developing a more accurate, scalable approach that can be implemented directly in the field. Our work combines advances in manufacturing technology, optical science, and humanitarian medicine to make vision care more precise, efficient, and

sustainable. Beginning with pilot efforts in El Salvador, our goal is to create a model that can ultimately be adapted for communities around the world.

VisionForge is exploring how emerging manufacturing technologies, including additive manufacturing and innovative frame design, can support more accurate prescription delivery in field environments. Utilizing design theory and harkening back to an earlier time in refractive engineering, **V**isionForge occupies a unique space at the intersection of global health, technology, and nonprofit impact**, creating new frames and systems for deployment to improve how vision care is delivered at the point of care.**

While we consider making a **portable prescription lens library and dispensing system**, our power is in our mobility. We are an able-bodied team and have our own optometrist who shares this mission. **V**isionForge is actively looking for places where its services and products can improve lives.

Reasonable Effort and Value Proposition

Humanitarian innovation should maximize long-term impact while minimizing recurring operational costs. We emphasize new production methods, standardized components where practical, and adaptable manufacturing technologies, with the goal of reducing logistical burdens while increasing the availability of accurate prescription eyewear. We are currently printing resin-based circular frames.

Our products are not short-term consumable aid. Our frames and glasses are intended for long-term use to complement an optometrist's diagnosis and serve as rapid delivery offering quick assembly on-site.

Our aid system is reusable, scalable, and can support repeated deployment across multiple communities.

How Funding Is Used

Funding supports research, prototype development, field testing, and implementation of infrastructure; all foundational components necessary for long-term sustainability over a single outreach event.

Funding priorities currently include: preparing for pilot implementation March 2027 with the refining of our manufactured frames.

By concentrating resources on system development rather than one-time distribution, each subsequent deployment has the potential to become increasingly efficient.

VisionForge is intentionally designed around existing humanitarian workflows.

Medical mission organizations already conduct vision screenings, patient education and eyewear distribution. We don't want to replace those processes. Instead, we want to augment them, providing improved methods for producing or assembling prescription eyewear closer to the point of care.

How does the aid Work?

VisionForge creates and provides the frames, printed domestically in the United States. Our team leads a clinic or partners with another nonprofit group where we facilitate the examinations. Our eye doctor examines patients and determines the prescription needed, then we insert our pre-edged lenses into the frames, assembling them for the patient in real time there in the field at the point of care matching that prescription, providing the necessary elements needed to correct nearsightedness, farsightedness *and astigmatism* in children and adults.

Future Project Pending – Development of Field Refractor Device

During subjective refraction, clinicians often combine sphere and cylinder components in a trial frame or phoropter to *discover* the prescription needed, and a finished spectacle lens incorporates the combined prescription into one optical element.

Cylinder power has an orientation and changing that orientation changes the axis of correction; axis accuracy matters increasingly as cylinder power rises. So conceptually, a lens could be manufactured with a known sphere/cylinder combination, and then our field frame provides the rotational indexing needed to establish the desired axis.

The new system is organized around **complete sphero-cylinder lens prescriptions**, where each physical lens has two intrinsic attributes—SPH and CYL—and the device supplies the third variable, AXIS. The governing architecture is:

Lens = Sphere + Cylinder
Frame = Axis positioning

In the case are individually indexed circular lens wells arranged by optical power as a matrix. Sphere increases horizontally; cylinder increases vertically. Every lens (○) is an actual finished sphero-cylinder lens.

	SPHERE →					
CYL ↓	-4.00	-3.75	-3.50	-3.25 … 0.00 …	+2.00 …	+4.00
0.00	○	○	○	○	○	○
-0.50	○	○	○	○	○	○
-1.00	○	○	○	○	○	○
-1.50	○	○	○	○	○	○
-2.00	○	○	○	○	○	○

The case stores *power*. The frame controls *orientation*.

On the next page you will view a draft of what the functional prototype might look like.

Some copies (lenses) are intended for the diagnostic process, and others are installed into our frames, assembled post-examination and given to patients. The case design in development is reminiscent of early refractive devices and serves the same purpose as an automatic phoropter. It will have a **working lens library** in the upper section and **dispensing inventory cartridges** underneath. The clinician works from one controlled reference set; replacement/dispensing stock stays protected below.

An Important Distinction

The image above and its accompanying information relate to a future product design. **V**isionForge and its team travel with a portable phoropter which fulfills a similar purpose, so they have not explored fully completed the illustrated field device. The team is considering further development pending stronger evidence of need presented.

Long-Term Perspective

VisionForge is not intended to remain a single-country initiative.

Our long-term objective is to establish a scalable humanitarian vision platform capable of supporting mission organizations, community clinics, educational institutions, and healthcare partners throughout underserved regions worldwide.

Success in El Salvador will provide valuable operational insights that can inform future implementation across Latin America and other regions facing similar barriers to vision care.

Measurable Outcomes

Performance indicators may include:

- Patients examined/patients paired with glasses
- Manufacturing improvements validated/ Operational workflow development
- Clinical testing completed/ Medical volunteers trained

One of **V**isionForge's greatest strengths is that funding creates lasting infrastructure rather than temporary relief.

Unlike consumable humanitarian aid, investments in research, production capability, and implementation systems continue generating value across multiple future deployments. In this way, every successful deployment contributes to a growing body of knowledge that improves future **V**isionForge deployments.

Moral and Ethical Standards - Our Commitment to Human Dignity

VisionForge believes that access to clear vision is more than a healthcare service—it is a matter of human dignity. Our work seeks to restore opportunities that poor vision can limit, recognizing that every individual deserves access to quality vision care regardless of geographic location or economic circumstances.

New ideas will be evaluated through careful testing, consultation with medical professionals, and continuous quality improvement before widespread implementation. We believe innovation should increase access without compromising patient safety or professional standards. **V**isionForge recognizes that humanitarian innovation should also consider its environmental impact. As we research manufacturing methods and materials, we will prioritize approaches that reduce unnecessary waste, improve material efficiency, and support responsible resource management whenever practical.

Our objective is to develop systems that are not only affordable and scalable but also environmentally conscious throughout their lifecycle.

We recognize that preventable or correctable vision impairment disproportionately affects individuals living in underserved and geographically isolated communities. Our work seeks to reduce those disparities through practical, scalable solutions that expand access without regard to race, ethnicity, religion, gender, political affiliation, or socioeconomic status.

We are committed to operating with transparency, fiscal responsibility, and accountability to our partners, donors, volunteers, and the communities we serve.

As a nonprofit organization, **V**isionForge understands that every donation represents an investment of trust.

We are committed to using financial resources responsibly, measuring outcomes carefully, and continuously evaluating our programs to maximize humanitarian impact.

We envision a world where geography and economic circumstances no longer determine whether someone can see clearly. Through innovation, collaboration, and compassionate service**, V**isionForge is building the future of humanitarian vision care—one that is more accurate, more accessible, and designed to reach those who have historically been beyond the limits of traditional systems.

To all readers, thank you for taking the time to digest this document. I hope that you will consider furthering the current and future work of **V**isionForge.

Together we will build a clearer future for all. Reach out at https://www.clearvisionproject.net to learn more.

Signed,

Braden Bowman, Founder and President

Vision Forge Incorporated

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