Presents
The EagleEyes Project
Vision Statement

• To improve the quality of life for children and adults with severe physical challenges and their families, through recreation, education, and communication.
The Opportunity Foundation of America

• Non Profit 501(c)(3) charity composed of mostly volunteers, supported by grants, fundraising and generous donations.

• Established in 2000 by a group of caring executives

• 2005 signed an exclusive license agreement with Boston College to manufacture, distribute and provide training for the EagleEyes technology.
What is EagleEyes?

• EagleEyes is an innovative eye-controlled technology that acts as a mouse replacement system for the computer

• Basically the eyes replace the mouse
How Does it Work?

- Eye Tracking Technology
- 5 electrodes measure the electrical signal of the eye called the EOG
- 2 Horiz. 2 Vert. 1 Ground
- Electrodes send EOG to a console that amplifies signal
- Console sends it to a computer and software converts eye movement into mouse movement on the screen.
Who uses EagleEyes?

• Primarily for Children and Adults with severe special needs who are often non-verbal, paralyzed or have at best a yes/no method of communication

• Diagnoses in this category are Rett Syndrome, Spinal Muscular Atrophy and severe Cerebral Palsy, Trisomy and Hydranencephaly.
EagleEyes Cost

- Current cost, $1,299 to manufacture the console and electrodes
- Training cost average $300-500
- Provide Free Support
- Similar systems average $5-15,000 retail cost.
EagleEyes allows the user to

- Learn Cause and Effect
- Play and Recreate
- Learn how to use their eyes as a tool
- Communicate
- Education and Learning
Effects of EagleEyes

- Stimulates visual cortex
- Teaches users to focus their vision
- Challenges user and creates awareness of self
- Instant real-time feedback
- Often, the first form of educational independence
- EagleEyes High School Volunteer Program
Examples of Effects of EagleEyes

Michael Nash
• Told he had the mentality of a 6 month old by doctors
  – Graduated mainstream High School using EagleEyes

Grace Ward
• Started to attend school after 17 years
  – Now smiles, laughs and interacts, and plays
Success with EagleEyes

• Each user will have their own level of success
• Improved quality of life for each individual is what measures the true success of EagleEyes
• Progression Guide and Data collection sheets
Compare to other eye tracking?

• Infrared devices
  – Work well for high functioning
  – Doesn’t move with user
  – Doesn’t work well for peripheral users

• EagleEyes
  – Adaptable to the user – Their paradigm not ours.
  – Allows user to be themselves and use it “their way”
  – Allows head movement to augment use
  – Used with most any software
Camera Mouse

- Camera Mouse is a head tracking device
- Any Windows computer with webcam
- Free download at: OpportunityFoundationofAmerica.org or OFOA.net
Free Tools and Software

• Camera Mouse – CameraMouse.org
• Midas Touch - www.midastouch.org
• Staggered Speech - www.staggeredspeech.org
• Herbi Speaks – OFOA.net
• www.OFOA.net/activities
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Instagram: [eagleeyesofoa](https://www.instagram.com/eagleeyesofoa)

Facebook: [EagleEyes and Opportunity Foundation of America](https://www.facebook.com/EagleEyesandOpportunityFoundationofAmerica)

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