The **Wheel Vision System** utilizes one camera to perform three means of wheel differentiation:
- Pattern Identification
- Finish Detection
- Color Detection

The **Tire Vision System** utilizes two cameras and an optical beam array in combination to perform five means of tire differentiation:
- Tread Identification
- Color Stripe Detection
- Side Wall Raised White Letter Identification
- Color Label or Paint Dot Detection
- Tire Height Detection (Beam Array)

**Operator Interface Benefits:**
- Teach new product with point and click features
- Operator configurable - easily change, delete, or update styles
- Real-time operator feedback on production status and failure modes

**System Highlights:**
- Uses the power of Cognex VisionPro with PatMax
- Interfaces with the plant database or tracking system to receive an anticipated tire/wheel style and provide a pass or fail status
- Can operate in code detect mode to match the tire/wheel to the best possible option in the dictionary without the use of a tracking system

Esys offers extensive experience in the development and deployment of vision systems for automotive and industrial applications. Other vision applications Esys provides include: Part Identification, Mistake Proofing, Defect Detection, 1D & 2D Barcode, Tire & Wheel Match Mark, Robot Path Correction.