Valvoline Global

**Vision Systems in Quality Control: A Comprehensive Study of Applications, Challenges, and Future Directions in Industry 4.0**

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# Introduction

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## In-Depth Literature Review

## Technology Analysis

## Challenges and Limitations

### Scalability and Cost Considerations

### Integration with existing Manufacturing Systems and Workflows

### Real-time Processing and Latency Issues

### Handling environmental Factors

## Works Cited