

MARCBot IV

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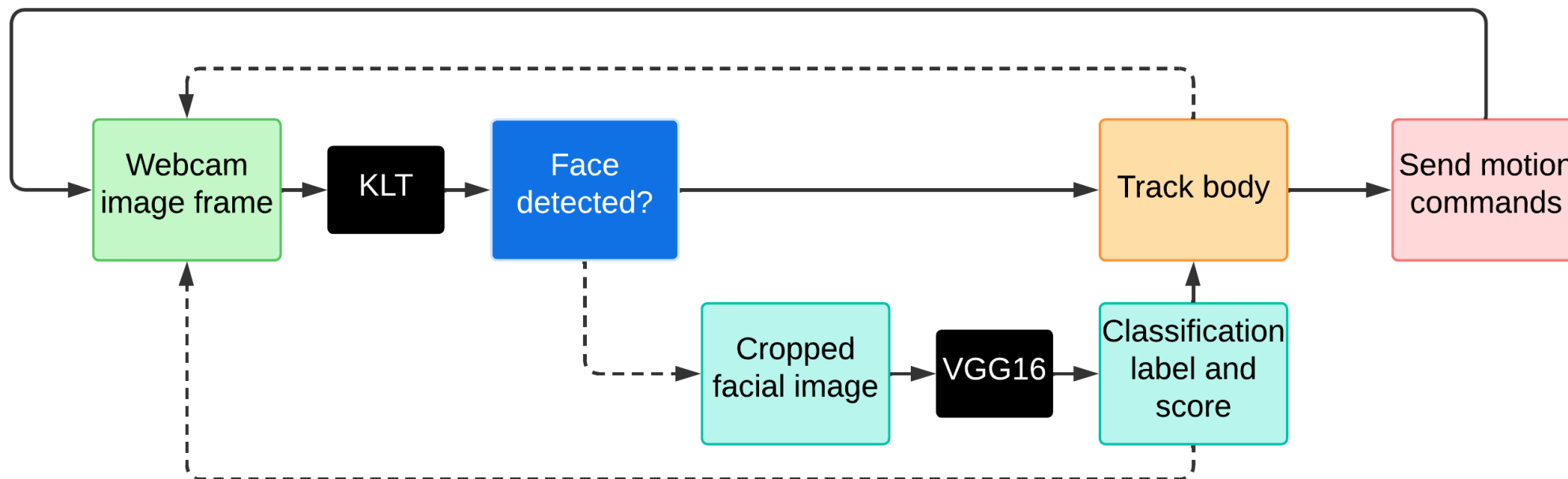
- **Vision-guided** mobile robot for real-time surveillance, capable of identifying, tracking, and following individuals in noisy environments.
- Utilizes **deep learning models** for human detection and classification.
- Inexpensive, rugged, technology enabler providing real-time **autonomous tracking** of targets of interest.



US Army NVSED, CERDEC (100659)

Methods

- **KLT**: Multi-Object detection and drawing bounding boxes.
- **VGG16**: Fine-tuned image classification CNN for face classification.



Results



Target: Michael