



The Challenges

To further improve care, the remote physician should have direct access to the **information available from medical devices** used by the medics, especially vitals signs monitors and ultrasound scanners. Unfortunately there are poor interoperability standards for medical devices. But the **human-readable displays of these devices** will be in view of the smart glasses camera. Can machine vision recognize those displays and ingest those data?

To ensure continuity of care, identifying and documenting **key verbal interactions** of the medics and patients is crucial. Recognizing and documenting **non-verbal respiratory symptoms** like coughing is also important. **Can machine audition and NLP do this automatically?**

Finally, streamlining patient identification and pulling other key information from standard documents like driver's licenses means that medics spend less time on paperwork and more time treating patients. Can machine vision recognize these documents and comprehend and ingest their contents?



Dr. Nick Dalesio of JHU in an ambulance, wearing smart glasses on a medical head mount. On his chest are a MiFi unit for mobile broadband and an auxiliary battery.

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One Final Note!

The projects described here will help build the foundation for our next phase, which is to use these and other inputs to provide **AI-based diagnostic and decision support** for medics and nurses, in addition to the remote support from human physicians we enable today.

We've got a lot to do and we hope you will consider joining us on our mission to improve healthcare outside of the hospital, especially for people in rural and underserved communities who rely on under-resourced clinics, nursing homes and other facilities for their care.

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