

PS




SASIKUMAR
PRASANTH

XR Researcher

Creator of things - virtual and physical. For
both business and pleasure.

CONTACT

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 youtube.com/143prasanth

HOBBIES AND INTERESTS



Resume

EXPERIENCE

- 2020 - 2020 • **Graduate Teaching Assistant**
University of Auckland, NZ
Responsible for designing and delivering course curriculum for mixed reality applications
- 2018 - 2019 • **XR Developer**
Jix Reality, NZ
Responsibilities included developing XR experiences for companies & events
- 2014 - 2016 • **Software Engineer**
IBS Software Services, IN
Developing booking solutions (JAVAEET) for aviation software industry

EDUCATION

- 2019 ~ • **PhD Research : Multimodal Input in Remote Collaboration**
Auckland Bioengineering Institute, University of Auckland, NZ
Ongoing research in remote collaboration with multimodal input and physiological sensing.
- 2018 • **Master of Human Interface Technology**
University of Canterbury, NZ
Conducted NZ govt funded research on haptic feedback in VR.
<https://ir.canterbury.ac.nz/handle/10092/15156>
- 2014 • **Bachelor of Technology : Computer Science**
University of Kerala, IN
Completed with distinction from the University of Kerala.

TECHNOLOGIES

DAY-TO-DAY COMFORT

- VR Development (Unity/Unreal)
- C , C++ , C# , Java
- JavaScript/Node Js
- Version Control (GIT/SVN)
- Linux/Mac/PC Development

HAVE EXPERIENCE WITH

- Hololens, Magicleap, Dreamworld
- Oculus Rift, Quest, HTC Vive
- Windows Mixed Reality Dev
- HTML 5/ CSS 3
- Media Tools (PS,AI,Premier Pro)

PUBLICATIONS

- **Wearable RemoteFusion: An MR Remote Collaboration System with Local Eye Gaze and Remote Hand Gesture Sharing**
2019 IEEE International Symposium on Mixed and Augmented Reality
P Sasikumar, L Gao, H Bai, M Billinghurst
- **A User Study on Mixed Reality Remote Collaboration with Eye Gaze and Hand Gesture Sharing**
Proceedings of the 2020 CHI
H Bai, P Sasikumar, J Yang, M Billinghurst
- **Effects of spatial auditory & visual cues on MR remote collaboration**
Journal on Multimodal User Interfaces 14 (4), 337-352
J Yang, P Sasikumar, H Bai, A Barde, G Sörös, M Billinghurst

REFERENCES

Prof. Mark Billinghurst
Director - Empathic Computing Lab,
University of Auckland, NZ
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Prof. ROB LINDEMAN
Director - Human Interface Tech,
University of Canterbury, NZ
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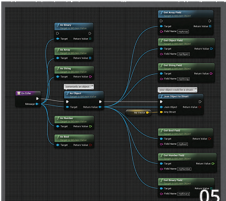
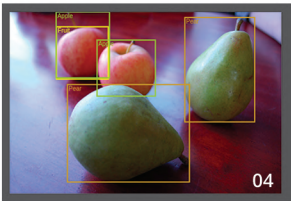


SASIKUMAR PRASANTH

XR Developer

- 01 **Scene Reconstruction**
Mixed Reality Remote Collaboration
Developed a remote collaboration system that supports live scene reconstruction using depth cameras.
- 02 **MULTI SENSORY IMMERSION**
VR Research
Developed wearable feedback devices for VR and conducted user studies.
- 03 **AMBILIGHT**
Accessory to augment display panels
DIY project to augment display panels by projecting light gradients at the back of the display panel.
- 04 **KNOW YOUR FRUIT**
Android Application
App to identify fruits in realtime using google tensor flow API
- 05 **FIREFIGHTER SIMULATOR**
VR simulator for fire fighter co-ordination
Developed interfaces for a fire fighter simulator as part of 85k challenge.
- 06 **ENCOMPASS**
AR app for inventory management
Won MYOB National IT Challenge with an AR app to manage inventory
- 07 **MAGIC MIRROR**
Micro- controller based DIY project
Light weight NodeJS framework to run on raspberry pi to show notifications

Portfolio



Find out more at
prasanthsasikumar.com

