

# Sounak Bhattacharya

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<https://github.com/bsounak>

## Summary

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I am an Imaging engineer with 6+ years of experience in the field of Machine Vision, Computer Vision, Image processing and Optics. I am also a passionate coder who loves writing usable, maintainable and well-designed software. I like to work in challenging roles. I am an excellent team player with great communication skills. I can also work independently when required.

## Work Experience

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### **OptoFidelity Oy. (Imaging Engineer), October 2017 -**

- Worked on machine vision problems related to testing Head Mounted Displays. This includes writing camera drivers, performing camera calibrations, designing camera alignment algorithms for Head Mounted Displays, designing and implementing algorithms for different analyses and implementing standard measurement methods e.g, IEC 63145-20-10
- Worked for undisclosed client (Internal name: Sauna). This project involved porting and optimizing production ready image analysis algorithms, which was in MATLAB, to Objective-C. Delivered project on site.
- Worked for undisclosed client (Internal name: Sauna). This project involved developing an IQC (Internal Quality Control) tester for clients various different internal components. Delivered project on site.
- Worked on various projects related to software and imaging algorithms for display test automation.

### **Tampere University of Technology (Research Assistant), September 2014 - October 2017**

- Worked as a research assistant in the department of signal processing on projects which involved collaborations between Tampere University of Technology and Nokia Technologies. The work mainly involved working with 3D point clouds generated from Lidar data and feature extraction from these large scale 3D datasets.

## Education

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### **Tampere University of Technology (Master's degree), 2013 -**

- Major in Signal Processing (Thesis pending). Minor in Information Technology.
- GPA: 4.2/5

### **West Bengal University of Technology (Bachelor's degree), 2008-2012**

- Major in Computer Science
- Cumulative GPA: 7.39/10

## Hacking Skills

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- Python, MATLAB, C++, Objective C
- OpenCV, Numpy, Pandas, scikit-learn, Halcon
- Vim

## Publications

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- Bhattacharya S., Fan L., Babahajiani P., Gabbouj M. (2016) Global Scale Integral Volumes. In: Computer Vision – ECCV 2016 Workshops. ECCV 2016.

## Interests

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Music, Cinema, Badminton, Reading, Running.

## References

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### **Ranjeeth Shetty**

Software Engineer Project Lead

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### **Joni Piililä**

Chief Operating Officer (COO)

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