

# Agniva SENGUPTA

## PERSONAL DATA

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ADDRESS: Rennes, France  
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## EDUCATION

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JULY 2012 Master of Technology in MECHANTRONICS, [IIST](#), [Shibpur](#), India  
*summa cum laude* | Master's Theses in *Path planning for Mobile Robots*  
Advisor: Dr. S. N. SHOME, Dr. Ranjit RAY, Prof. Subhasis BHAUMIK

AUGUST 2008 Bachelor of Technology in INFORMATION TECHNOLOGY  
*summa cum laude*, West Bengal University of Technology, India

## PUBLICATION

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- Sengupta, Agniva, and E. Shafeeq. "New feature detection mechanism for extended Kalman filter based monocular SLAM with 1-point RANSAC" *Lecture Notes in Artificial Intelligence, Springer*. Mining Intelligence and Knowledge Exploration, 2015.
- Sengupta, Agniva, Ranjit Ray, and S. N. Shome. "Virtual Stretched String: An Optimal Path Planning Technique over Polygonal Obstacles" *Proceedings of Conference on Advances In Robotics*. ACM, 2013.
- Sengupta, Agniva. "Obstacle Avoidant Path Planning Using Probabilistic Genetic Algorithm With Adaptive Performance Optimization" *Recent Advancement in Mechatronics Automation. BESUS : s.n., 2011*.

## PHD TOPIC & DETAILS

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The objective of my thesis is the tracking and localization of objects of partially known shapes using depth cameras. I work in the [LAGADIC](#) research group of INRIA, Rennes. My thesis is supervised by [Eric Marchand](#) and [Alexandre Krupa](#). I defend my PhD in/around December, 2019.

## WORK EXPERIENCE

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JAN 2017 TO PRESENT	PhD Student at <a href="#">INRIA</a> , <a href="#">RENNES</a> , France
NOV 2015 TO DEC 2016	Computer Vision Research Engineer at <a href="#">WHODAT TECH PVT. LTD.</a> , Bangalore, India
AUG 2014 TO NOV 2015	Senior Design Engineer at <a href="#">KRITIKAL SOLUTIONS PVT. LTD.</a> , Bangalore Working at client location for <a href="#">Continental Automotives</a> (ADAS)
FEB 2013 - MAY 2014	Engineer at TECH BLA SOLUTIONS PVT. LTD., Calcutta, India
JUL 2009 - AUG 2010	Programmer at <a href="#">ACCENTURE</a> , Bangalore, India