


Shashwat Verma

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Embedded Systems Engineer

Personal statement Student of Embedded System specialising in Networking and Software, at Technical University of Delft. I want to pursue my further career in embedded software development.

Interests. Embedded programming, inter-device communications, Real-time OS.



Education

Sep 2015 – Feb 2018 (expected)	Master of Science (MSc) in Aerospace Engineering, <i>Technical University of Delft</i> (TUD), The Netherlands Master Track : Aerodynamics, Relevant course work : Flow measurement techniques, experimental simulation, Race car aerodynamics Extra-curricular : Aerodynamics engineer at student team Eco-runner Delft.
Aug 2011 – July 2015	Bachelor of Technology , <i>SRM University</i> , Chennai, India Automobile Engineering Volunteer at Green Nest for under-privileged children education

Work Experience

April 2011	title, company , China
March 2011	title, Department detail. <i>keyword</i> : Eclipse Android
October 2004	Design, Apple , USA
Aguest 2004	Design apple 4. <i>Technologies</i> : Art.

Projects

April 2017 Present	Geometrical optimisation for cylinder drag reduction in constrained space, TU Delft, MSc Thesis <ul style="list-style-type: none">> Fundamental research on <i>two-dimensional cylinder flow</i>.> Geometry design of wind tunnel models by <i>2-D flow analysis</i> using <i>XFOIL</i> .> Drag quantisation by control volume approach using <i>PIV</i> technique in wind tunnel test.> Reconstruction of Pressure from velocity field by numerical solution of Poisson equations. <div>Wind tunnel testing Particle Image Velocimetry (PIV) Davis MATLAB Solidworks XFOIL</div>
Sept 2016 Aug 2017	Eco-runner Team, Delft, Student team participating in shell Eco-marathon <ul style="list-style-type: none">> Extract the spatio-temporal features and obtain "Bag of words" representation by clustering (k-means) the extracted features;> Infer the posterior by pLSA/LDA (unsupervised Learning) or by simple classifications (KNN, SVM);> Propose a simple method called 'voting' to achieve multiple actions recognition task.>  : github.com/huajh/action_recognition <div>Wind tunnel testing Oil layer visualisation Xflow CFD Flow control techniques MATLAB Team work</div>
Feb 2016 April 2016	Research Intern, University of Southampton, Southampton, UK <ul style="list-style-type: none">> Apply the GMM, student-t mixture model, and Dirichlet process based infinite mixture model to the brain MR image clustering problem;> Derive the detail variational Bayesian inference process.> Improve these three algorithms by using laplacian graph (manifold learning);>  : github.com/huajh/variational_bayesian_clusterings <div>Write the skills here</div>

Nov 2012 Jul 2012	Advance side-impact protection system, SRM University, Bachelor Thesis <ul style="list-style-type: none"> > Responsible for the maintenance and development of Princeton Financial Systems. > As well as in charge of improving the performance of the system by integrating new technologies. C/C++ programming C performance optimization portfolio
Jul 2012 May 2011	Member of project team, Institute of intelligent systems, ZJUT <ul style="list-style-type: none"> > Oct 2011-May 2012, write a paper <i>Traffic routing algorithm based on the spatial complex networks</i>; > May-Sep 2011, work on the project : <i>Motion Sensing PPT based on Kinect</i> <i>Programmer</i>. complex networks kinect C#
Dec 2011 Oct 2011	Tiny Software development, ZJUT, C/C++/JAVA <ul style="list-style-type: none"> > Oct-Dec 2011, <i>Online Works Show Platform</i> <i>Leader</i>. I designed and implemented a lightweight relational object JDBC package, which is used for the programming of the server. Got the 2nd place of the contest judged by the TaoBao UED. 📄 : github.com/huajh/showplatform > Nov 2011, <i>Unix File System</i> <i>Independent developer</i>. The system is implemented by the C/C++. It has basic shell commands, well performed memory management, as well as the users management, and it supports parallel operation. 📄 : github.com/huajh/unix_file_sys JAVA Unix software development Database Sql Server

☰ Skills

Programming Skills :	C, C++, Python, Matlab, SQL, Git, Java.
Embedded Programming :	<i>master in</i> Embedded C for micro-controllers (ATMEGA, PIC, etc.). <i>familiar with</i> most STM controllers and other resource constrained platforms. <i>familiar with</i> Real-time Operating System.
Android development	<i>understanding of</i> application development with time constrained scenarios and native environment.
Computer Vision :	<i>have a certain understanding of</i> image processing (segmentation, classification, etc.), video analysis (object recognition, tracking, etc.).

📖 Languages

English :	Reading ● ● ● ● ● Listening ● ● ● ● ● Speaking ● ● ● ● ○	Hindi : native
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💡 Interests

Swimming, sketching, cooking, bowling