





# Bhuvan Kumar GUNESSEE

## Software Programmer

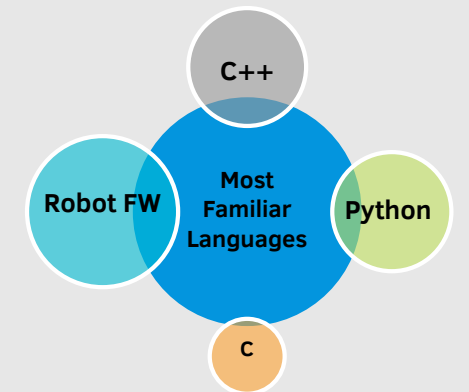
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 Echo327

## Skills



BASH   node.js   unittest   Catch2

### Other Skills/Tools

git   JIRA   Trello   Jenkins  
VSCode   PyCharm   Code::Blocks  
vi   Joplin   OneNote   Confluence  
Jupyter   Anaconda   MATLAB/Octave  
asciidocor   LaTeX  
SSH   TFTP   CAN   wireshark

### Familiar OS

Linux, Windows, ChromeOS, Raspberry Pi OS, Android, and iOS

### Language Proficiency Tests

**English - C2 Level**  
Cambridge (CAE) - June 2019  
Score: 203/210 (C2 Level)

**French - B2 Level**  
DELFB2 - June 2012  
Score: 64/100 (B2 Level)

### Personal Interests

Core Gamer.  
Computer Hardware.  
Computer Programming.  
New Technology.

Many clickable website links are provided in the PDF when opened on a computer. For example, click me for a link to the most recent version of the CV.

## Work Experience

May 2022 - (current)	<b>Consulting Software Engineer</b> Client: Airbus Operations	Randstad Digital France - Toulouse
	•New features and bug correction on existing <b>C</b> and <b>C++</b> code. •New features and bug correction in <b>Python</b> libraries. •Integration testing using <b>Robot Framework</b> .	
Feb 2018 - Aug 2021	<b>Cartography of Asphaltenic Systems</b> Research Activity	IPREM-UPPA, Pau
	•Genetic Algorithms (GA), Ab Initio Calculations and MD Simulations •Development of <b>Python</b> software and libraries; Interface, Factory, Parser, File Type Converter etc. that interact with C++ and Java software + <b>BASH</b> scripts	
2018-2020	<b>Teaching Assistant</b>	UPPA, Pau

## Projects

2022 (ongoing)	<b>MP TEST ENABLERS team</b> Client: Airbus Operations Virtual Test Benches: <i>MCDU (A739), CMC (ABD100), Dataloader (A615A), BSWTOOL (Basic SoftWare)</i>	Randstad Digital France
	. C, C++, Python, Robot Framework, ARINC	
2016 Masters	<b>Monte Carlo study of 2D Ising model</b> in Fortran	Paul Sabatier University
2015 Masters	<b>10-body model of Planetary Orbits</b> in C	Paul Sabatier University
2014 Bachelor	<b>Space Shuttle Re-Entry in earth atmosphere</b> in MATLAB	Paul Sabatier University

## Education

Ongoing	<b>Online Courses</b> Coursera, edX, Udemey, etc.	Full List (with description) on <i>LinkedIn</i>
2022	<b>C++ Embedded POEI</b> 3-Months Refresher Course	AJC Formation
2015 - 2017	<b>Masters in Physics</b> Fundamental and Applied Physics (Minor in Materials Science)	Paul Sabatier University(France)
2012 - 2015	<b>Bachelor in Fundamental Physics</b> Fundamental Physics	Paul Sabatier University(France)
2010 - 2011	<b>HSC Cambridge 'A' Level (CIE)</b> Main: Physics, Chemistry, Mathematics; Subsidiaries: Biology, General Paper	Adolphe de Plevitz SSS (Mauritius)
2008 - 2009	<b>SC Cambridge 'O' Level (CIE)</b> Physics, Chemistry, Biology, English, French, Mathematics, Additional Mathematics	Adolphe de Plevitz SSS (Mauritius)

## Internships

Feb 2017 - Jul 2017	<b>Atomic Scale Modelling of Ruthenium on Gold</b> First principles study (DFT) of the deposition of Ruthenium (Ru) on Gold (Au)	LAAS-CNRS, Toulouse
Mar 2016 - May 2016	<b>Model of the reflectivity of 2D Surfaces</b> •Modelling using Fresnel equations and Transfer Matrix Method (TMM) in MATLAB/GNU Octave of the reflectivity of thin films. •A <b>Graphical User Interface (GUI)</b> was developed in <b>MATLAB</b> to allow an end user to dynamically modify the thickness and refractive index (different materials) of the thin films.	CEMES-CNRS, Toulouse