Bhuvan Kumar GUNESSEE

Software Programmer

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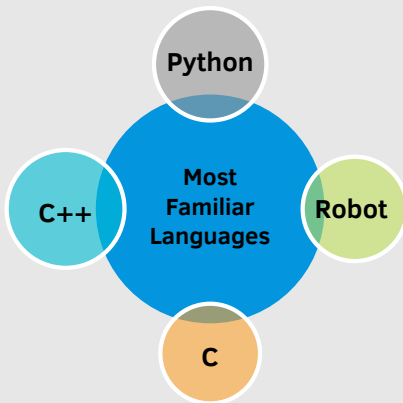in /in/bkgunessee/

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Skills

Other Skills/Tools

git   JIRA   Trello

VSCode   Jupyter   Code::Blocks

vi   Joplin   OneNote

MATLAB   GNU Octave   LaTeX

Familiar OS

- Administration
  Linux

- User
  Linux, Windows, Chrome OS, Android, and iOS

Language Proficiency Tests

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

French - B2 Level
DELF B2 - 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)	**Consulting Software Engineer** Airbus Operations	AUSY Toulouse

- New features and anomaly correction on existing **C++** code.
- Integration testing using **Robot Framework**.

Feb 2018 - Aug 2021	**Cartography of Asphaltenic Systems** Research Activity	IPREM-UPPA, Pau

- **Python** software and libraries, **BASH** scripts
- ReaxFF Force Field Parameterisation using Genetic Algorithms (GA)
- Ab Initio Caculations and MD Simulations

2018-2020	**Teaching Assistant**	UPPA, Pau

Projects

2022 (ongoing)	**MP TEST ENABLERS** Airbus Operations C++, Robot Framework, ARINC, TFTP	AUSY Toulouse
2016 Masters	**Monte Carlo study of 2D Ising model.** Fortran	Paul Sabatier University
2015 Masters	**10-body model of Planetary Orbits.** C	Paul Sabatier University
2014 Bachelor	**Space Shuttle Re-Entry in earth atmosphere.** MATLAB	Paul Sabatier University

Education

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

Internships

Feb 2017 - Jul 2017	**Atomic Scale Modelling of Ruthenium on Gold** First principles study (DFT) of the deposition of Ruthenium (Ru) on Gold (Au)	LAAS-CNRS, Toulouse
Mar 2016 - May 2016	**Model of the reflectivity of 2D Surfaces**	CEMES-CNRS, Toulouse

- Modelling using Fresnel equations and Transfer Matrix Method (TMM) in MATLAB/GNU Octave of the reflectivity of thin films.
- A **Graphical User Interface (GUI)** was developed in **MATLAB** to allow an end user to dynamically modify the thickness and refractive index (different materials) of the thin films.