Bhuvan Kumar GUNESSEE

Software Engineer • 6 Years
Technical Lead • French Nationality

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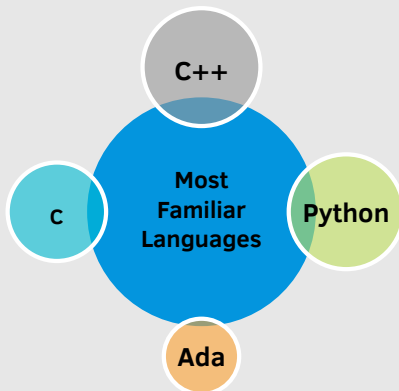
in /in/bkgunessee/

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Skills

C++

C   Most Familiar Languages   Python

Ada

BASH   javascript (Node.js)

Robot Framework   unittest   Catch2

Additional Proficiencies

SSH   MobaXterm

TFTP   CAN   wireshark

Jenkins   git

JIRA   Trello

VSCode   PyCharm

Jupyter   Anaconda

MATLAB /Octave

asciidoc   Markdown   LaTeX

Joplin   OneNote   Confluence

Blender   vi

Familiar OS

Linux, Windows, ChromeOS
Raspberry Pi OS, Android

Language Proficiency Tests

English - C2 Level

Cambridge (CAE)
Score: 203/210 (C2 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

2022 - (current)	**Consulting Software Engineer**	Randstad Digital France - Toulouse

Client: Airbus Operations
Embedded Software Development for display unit, maintenance system, dataloading, basic software, and automatic code generator
•Technical Lead (2 years)
•New Features •Bug Correction •Unit Testing •Integration Testing

2018 - 2021	**Research and Development (R&D)**	IPREM-UPPA, Pau

Funded by TotalEnergies, ISIFOR, and additional sources
•Development of Python libraries •Generation of BASH scripts
•Computational Chemistry •Genetic Algorithms (GA)

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

Projects

2024	**Client: Airbus Operations**	Randstad Digital France - Toulouse

SCADE_NG project
DO-178C Development Assurance Level A (DAL A)

•Unit testing using **Ada**
•Static analysis of Ada source code
•Accessor and Mutator functions

Component: ACG *(Automatic Code Generator)*

2022 - 2024	**Client: Airbus Operations**	Randstad Digital France - Toulouse

MP_TEST_ENABLERS project
DO-330 and Relevant ARINC Aviation Standards
•New features and bug correction on existing **C** and **C++** source code and **Python** libraries
•Unit and Integration testing using **Robot Framework**, **Catch2** and **unittest** framework and libraries
•Documentation updates
•Planning, progress monitoring, technical guidance, mentoring, continuous improvement proposals as **Technical Lead** on Dataloader and BSWTool

Virtual Components worked on:
MCDU *(A739 Display Unit)*, CMC *(ABD100 Central Maintenance System)*[6 months], Dataloader *(A615A)*[6 months], CPIOB *(I/O Card)* [2 months], BSWTool*(Basic SoftWare, A653, Time-Critical)*[16 months]

2018 - 2021	**MAMMOTH**	IPREM-UPPA, Pau

Development of MAMMOTH-related **Python** libraries + **BASH scripts** ; Interfaces, Lexing, Parsing, Factories, File Type Converters, *etc.* library development that interact with C++ and Java software in scientific context

Education

Ongoing	**Online Courses**	Full List (with description) on *LinkedIn*

Agile, Learning How to Learn, SOLID Principles, Time Management Mastery, Master Google Sheets, Professional Resilience, Active Listening, Design Patterns in Modern C++, Develop Discord Bots in Node.js, etc.
Multiple online platforms: Coursera, edX, Udemy, *etc.*

2017	**Masters in Physics**	Paul Sabatier University(France)

Fundamental and Applied Physics (Minor in Materials Science)

2015	**Bachelor in Fundamental Physics**	Paul Sabatier University(France)

Fundamental Physics

Internships

2017	**Atomic Scale Modelling of Ruthenium on Gold**	LAAS-CNRS, Toulouse

Density Functional Theory (DFT) on deposition of Ruthenium (Ru) on Gold (Au)

2016	**Model of the reflectivity of 2D Surfaces**	CEMES-CNRS, Toulouse

Computational Model of Reflectivity of thin films in MATLAB
Development of **Graphical User Interface (GUI)** in **MATLAB**