





Bhuvan Kumar GUNESSEE

Software Engineer
Technical Lead

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 Echo327

Skills

C++

C

Python

Ada

Most Familiar Languages

BASH javascript (Node.js)

Robot Framework unittest Catch2

Other Skills/Tools

SSH MobaXterm

TFTP CAN wireshark

Jenkins git

JIRA Trello

VSCode PyCharm Code::Blocks

Jupyter Anaconda

MATLAB /Octave

asciidocctor 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 Client: Airbus Operations •Technical Lead (2+ years) •C, C++, Python, Ada •Robot Framework, Catch2, unittest •ARINC (A739, ABD100, A615A, A653), Dataloading, Time-Critical	Randstad Digital France - Toulouse
2018 - 2021	Fixed-Term Contract (3 years) •Python libraries, BASH scripts •Genetic Algorithms (GA), Computational Chemistry	IPREM-UPPA, Pau
2018- 2020	Teaching Assistant	UPPA, Pau

Projects

Nov-2024 - Dec-2024	Client: Airbus Operations SCADE_NG project ACG (<i>Automatic Code Generator</i>) • Unit testing using Ada • Static analysis of Ada source code •Accessor and Mutator functions	Randstad Digital France - Toulouse
2022 - 2024	Client: Airbus Operations MP_TEST_ENABLERS project • New features and bug correction on existing C and C++ source code •New features and bug correction in Python libraries • Integration testing using Robot Framework • Unit testing using unittest and Catch2 •Documentation updates •Planning, progress monitoring, technical guidance, mentoring, continuous improvement proposals as Technical Lead on Dataloader and BSWTool Emulated Virtual Components: MCDU (<i>A739 Display Unit</i>), CMC (<i>ABD100 Central Maintenance System</i>)[6 months], Dataloader (<i>A615A</i>)[6 months], CPIOB (<i>I/O Card</i>) [2 months], BSWTool(<i>Basic SoftWare</i>)[16 months]	Randstad Digital France - Toulouse
2018 - 2021	MAMMOTH Development of Python libraries + BASH scripts ; Interface, Parser, Factory, File Type Converter, etc. that interact with C++ and Java software	IPREM-UPPA, Pau

Education

Ongoing	Online Courses Coursera, edX, Udemy, etc.	Full List (with description) on <i>LinkedIn</i>
2015 - 2017	Masters in Physics Fundamental and Applied Physics (Minor in Materials Science)	Paul Sabatier University(France)
2012 - 2015	Bachelor in Fundamental Physics Fundamental Physics	Paul Sabatier University(France)

Internships

2017	Atomic Scale Modelling of Ruthenium on Gold First principles study (Density Functional Theory, DFT) Deposition of Ruthenium (Ru) on Gold (Au)	LAAS-CNRS, Toulouse
2016	Model of the reflectivity of 2D Surfaces •Computational Model of Reflectivity of thin films in MATLAB/Octave •Development of <u>Graphical User Interface (GUI)</u> in MATLAB	CEMES-CNRS, Toulouse