# Bhuvan Kumar GUNESSEE

Software Engineer
Technical Lead

📱 (+33) 668392879

✉️ bhuvan.gunessee@gmail.com

in /in/bkgunessee/

⬤ Echo327

## Skills



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

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

## Projects

| | | |
|---|---|---|
| Nov-2024 - Dec-2024 | **Client: Airbus Operations**<br>SCADE_NG project (DO-178C DAL-Level A)<br>ACG *(Automatic Code Generator)*<br><br>•<u>Unit testing</u> using **Ada**<br>•<u>Static analysis</u> of Ada source code<br>•Accessor and Mutator functions | Randstad Digital France - Toulouse |
| 2022 - 2024 | **Client: Airbus Operations**<br>MP_TEST_ENABLERS project (DO-330)<br><br>•<u>New features</u> and **bug correction** on existing **C** and **C++** source code<br>•New features and bug correction in **Python** <u>libraries</u><br>•<u>Integration testing</u> using **Robot Framework**<br>•<u>Unit testing</u> using **unittest** and **Catch2**<br>•Documentation updates<br>•Planning, progress monitoring, technical guidance, mentoring, continuous improvement proposals as **Technical Lead** on Dataloader and BSWTool<br><br>Virtual Components worked on:<br>MCDU *(A739 Display Unit)*, CMC *(ABD100 Central Maintenance System)*[6 months], Dataloader *(A615A)*[6 months], CPIOB *(I/O Card)* [2 months], BSWTool*(Basic SoftWare)*[16 months] | Randstad Digital France - Toulouse |
| 2018 - 2021 | **MAMMOTH**<br>Development of **Python** <u>libraries</u> + **BASH** <u>scripts</u> ;<br>Interface, Parser, Factory, File Type Converter, *etc.* that interact with C++ and Java software | IPREM-UPPA, Pau |

## Education

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

## Internships

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