

## Project Concept Document

### I. General Information

Project name: Razer Device Customization Software for Linux      Project number: 1  
Requestor name: Alexander Shelton      Date of request: 12/10/2024  
Requestor's contact information:  
alexandershelton@student.purdueglobal.edu  
Section One — To be completed by the requestor

### II. Business Justification

*State the reason this project is needed and what problem or issue the project will resolve. Describe the impacts to the organization if the project is not approved.*

Currently, Razer Synapse, the proprietary software for customizing Razer peripherals, is not available on Linux, leaving Linux users without a comprehensive way to customize their devices. This project addresses the gap by developing software that enables users to reassign keys, record and assign macros, and configure device settings. Without this solution, Linux users face limited functionality, reducing their productivity and customization options for Razer devices.

### III. Project Description

*Provide a high-level overview of the project objectives. Include a brief list of desired project outcomes.*

The project aims to develop a Python-based application for Linux systems that integrates with the OpenRazer library to provide advanced customization options for Razer peripherals. Features include:

- **Key and Button Reassignment:** Allow users to remap keys or mouse buttons to perform new functions.
- **Macro Recording and Assignment:** Enable users to record sequences of actions and assign them to specific keys or buttons.
- **Lighting and Device Settings:** Provide basic lighting effects and configuration options.

This software will include a command-line interface (CLI) for user interaction and will leverage OpenRazer for device communication.

### IV. Project Costs

*Provide high-level estimates if known.*

- **Testing hardware:** \$0 - \$500

### V. Timeframe

*Is there a critical completion date?      Y/N      Date required: \_\_\_\_\_ Desired completion date if not critical: \_\_\_\_\_*

**Is there a critical completion date? Yes**  
**Date required: 02/01/2025**

Section Two — To be completed by the business unit manager or project manager

VI. Planning  
Estimates

*Provide a high-level estimate of project completion.*

**High-level project completion estimate:**  $\cong$  8 weeks

VII. Business Areas  
Impacted

*List all business units impacted by this project.*

- Linux-based device customization
- Open-source software community
- Razer peripheral users on Linux

Section Three — To be completed by the review committee

VIII. Selection Committee Review

*Date of review:*

*Comments:*

*Project reviewed/denied:*

*Project priority:*

IX. Signatures of Review Committee