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## Virtual Apple Tree Pruning in Horticultural Education

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**Abstract.** A virtual apple tree pruning system (VATPS) was developed to assist horticultural students in learning the correct pruning techniques for apple trees. The VATPS was designed to provide a virtual environment for students to practice pruning techniques. The VATPS was developed using a 3D modeling software (Autodesk 3ds Max) and a virtual reality (VR) headset (HTC Vive). The VATPS was evaluated by a group of horticultural students. The results showed that the VATPS was effective in helping students learn pruning techniques. The VATPS was also found to be a useful tool for horticultural education.

**Key words:** Virtual reality, Horticulture, Education, Pruning, Apple tree

**1 Introduction**  
The field of horticulture in China has made significant progress in recent years. However, the shortage of horticultural professionals and the lack of practical training opportunities are still major challenges. Virtual reality (VR) technology has been widely used in horticultural education. VR can provide a virtual environment for students to practice horticultural techniques. This paper describes the development and evaluation of a virtual apple tree pruning system (VATPS).

# SIMON PETERSEN

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April 19, 2020

Carson Life Inc.  
675 5th Ave.  
Miami, Florida 33131

To: Ruth Allen, Hiring Manager

Dear Miss Ruth Allen,

Having recently learned of the Materials Engineer opportunity with Carson Life Inc., I was compelled to contact you right away with my interest. In hopes of being considered for this position, I've included a brief outline of my background and qualifications for your review. I believe that I could make a strong addition to your team and offer the following career highlights to support my candidacy:

- In-depth knowledge of creating and studying various materials at the atomic level.
- Advanced training in Engineering from an ABET certified Bachelors Program at Florida University.
- Exceptional ability to design and direct the testing of processing procedures.
- Hands-on experience in evaluating the technical specifications and economic factors relating to the design objectives of high-end products.

Moreover, I possess excellent communication, leadership and problem-solving strengths. For a greater presentation of career contributions and achievements, please see my enclosed resume. I welcome the opportunity to speak with you at your earliest convenience and thank you for your time and consideration.

Sincerely,

Simon Petersen

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