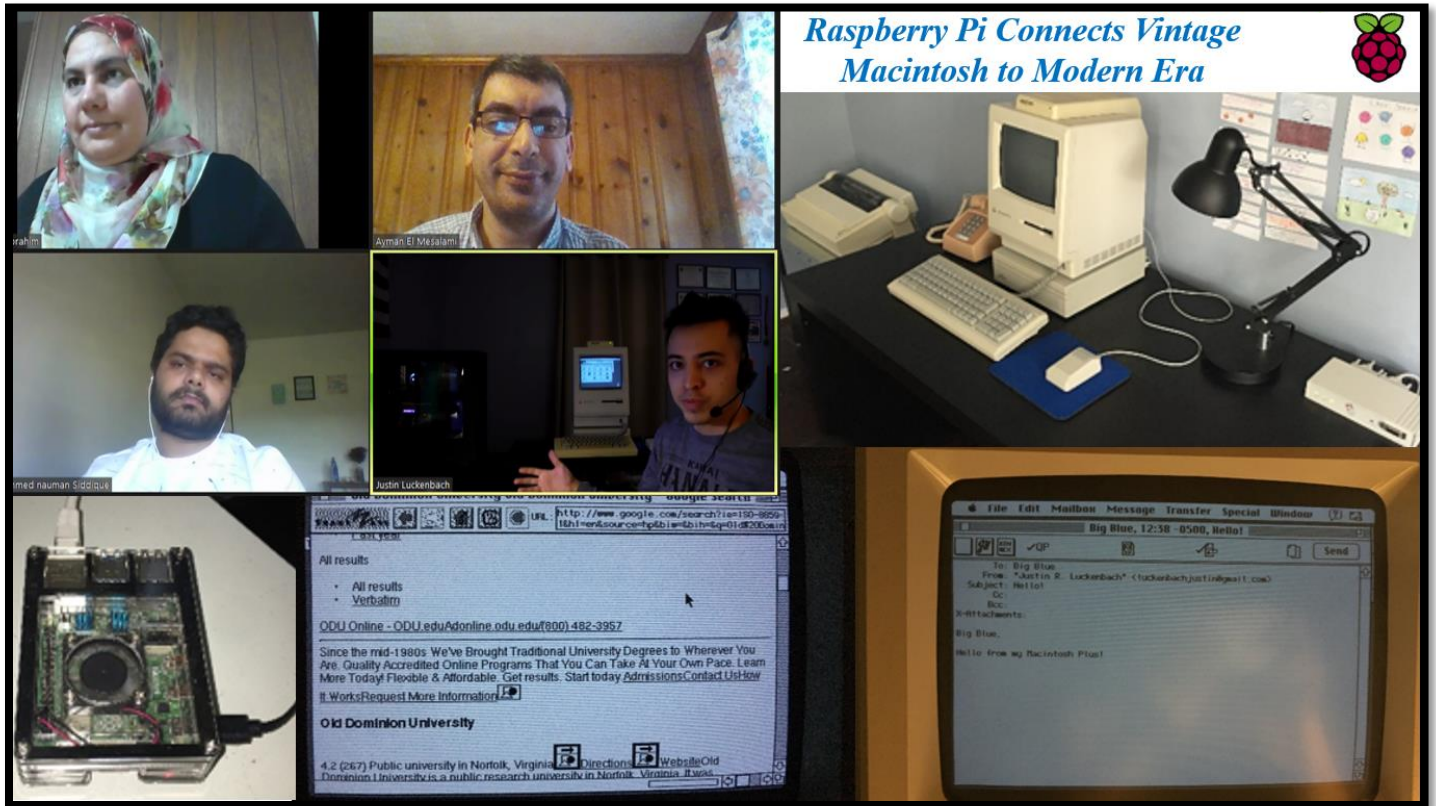


Winner projects of the 1st Raspberry Pi Programming contest – Fall 2020

Dr. Ayman Elmesalami & Dr. Soad Ibrahim

- Raspberry Pi Connects Vintage Macintosh to Modern Era, by Justin Luckenbach



- Encryption and Decryption with a RasPi, by Taylor Powell

Develop a program which allows the user to explore a number of historically significant and simple modern encryption and decryption methods:

- Caesar Cipher
- A Modified Vigenere Square
- Stream Cipher
- Steganography

Decision Tree

Caesar	Cipher Choice Vignere	Stream
	Encrypt or Decrypt Encrypt Decrypt	
Command Prompt	Input Choice .txt File	.png Image
Command Prompt	Output Choice .txt File	.png Image

R G B → 11100101

Plaintext: 01000011010010100100010
 Cipher stream: 101001010011010111011101
 Ciphertext: 111001001001000011111111

Bits are different so result is 1
 Bits are same so result is 0

1st subkey: A P 15
 2nd subkey: A I 8
 3rd subkey: A Z 25
 4th subkey: A Z 25
 5th subkey: A A 0