Etudes & Vignettes

for the EV (2020)

Brian Lindgren

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Notes on the Score

-Recall notes format:
OCT: (plus or minus octaves)
FM: (divide or multiply and the factor)(FM amount)(Oscillator and PWM levels)
FFT3: (amount sent via bus, output gain)(window size, overlap factor, sampled up or down)(default FFT input or swapped)
CV: (Source > Destination and amount)
MIDI ON (trigger MIDI and set the output accordingly)

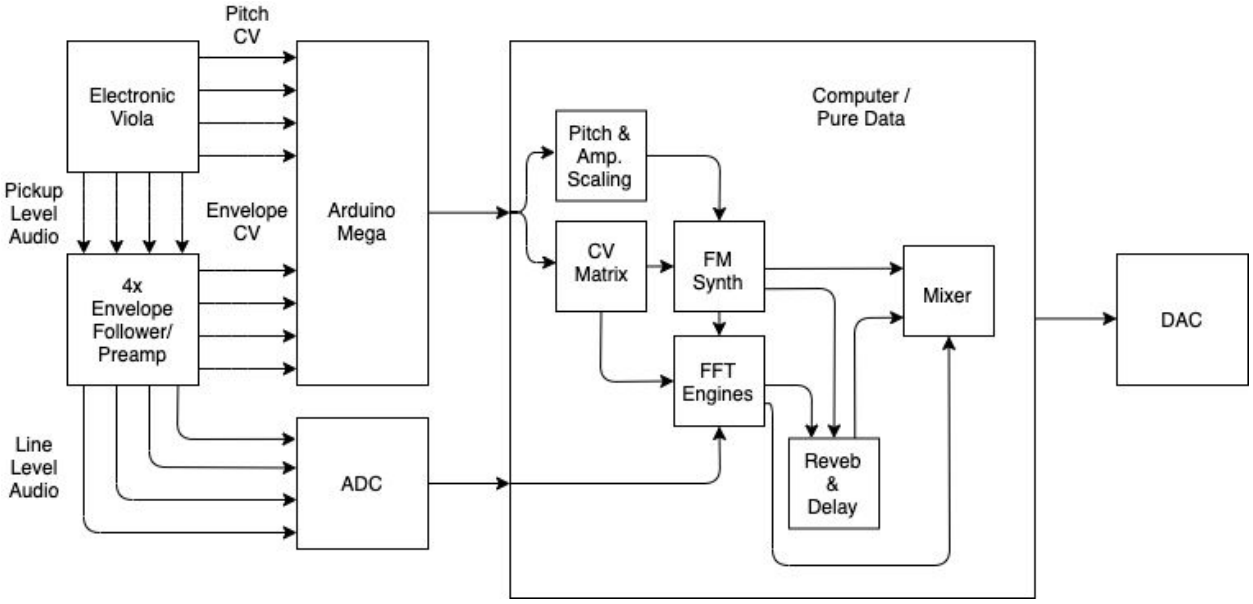
-written pitch does not necessarily correspond with sounding pitch

TECHNICAL REQUIREMENTS

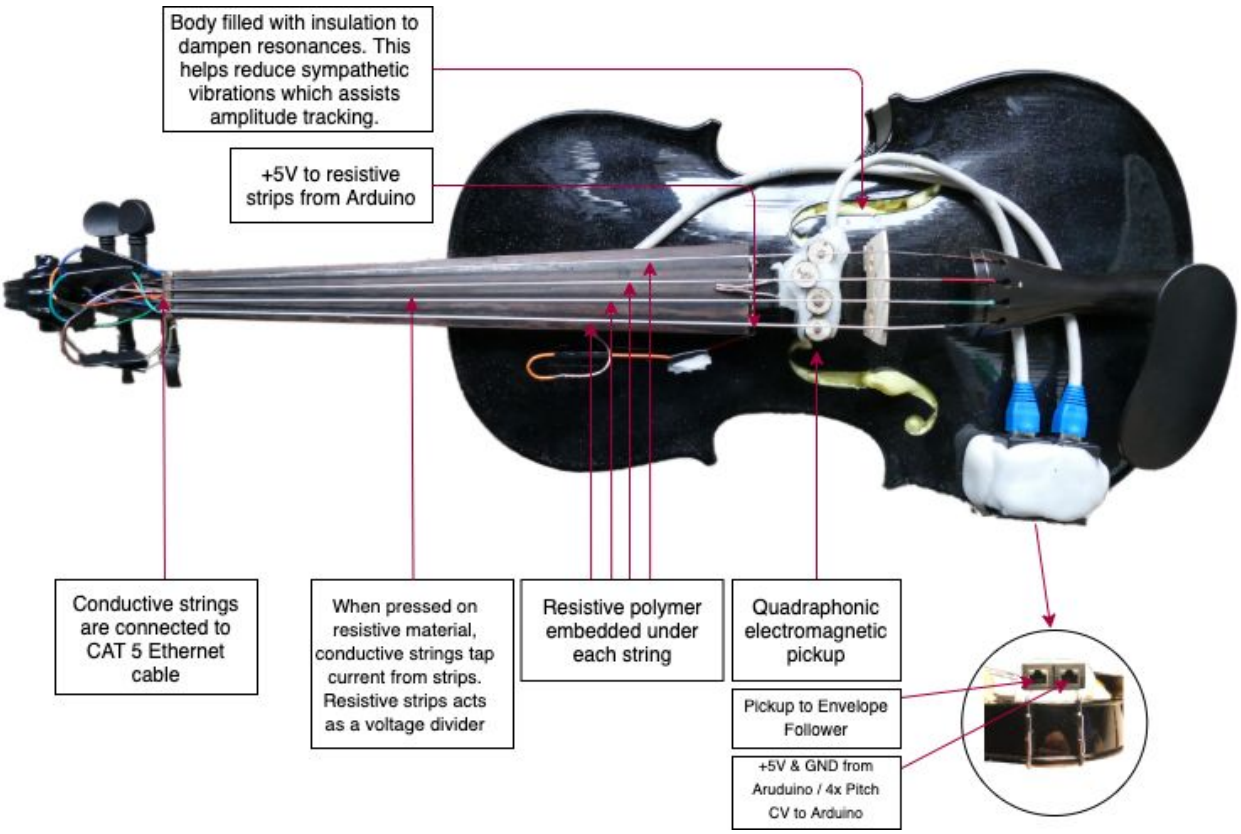
- Four electronic violas
- Four envelope follower boxes & Arduino boxes
- Four computers running PD & and ADC/DAC

ELECTRONIC VIOLA OPERATIONAL DIAGRAMS

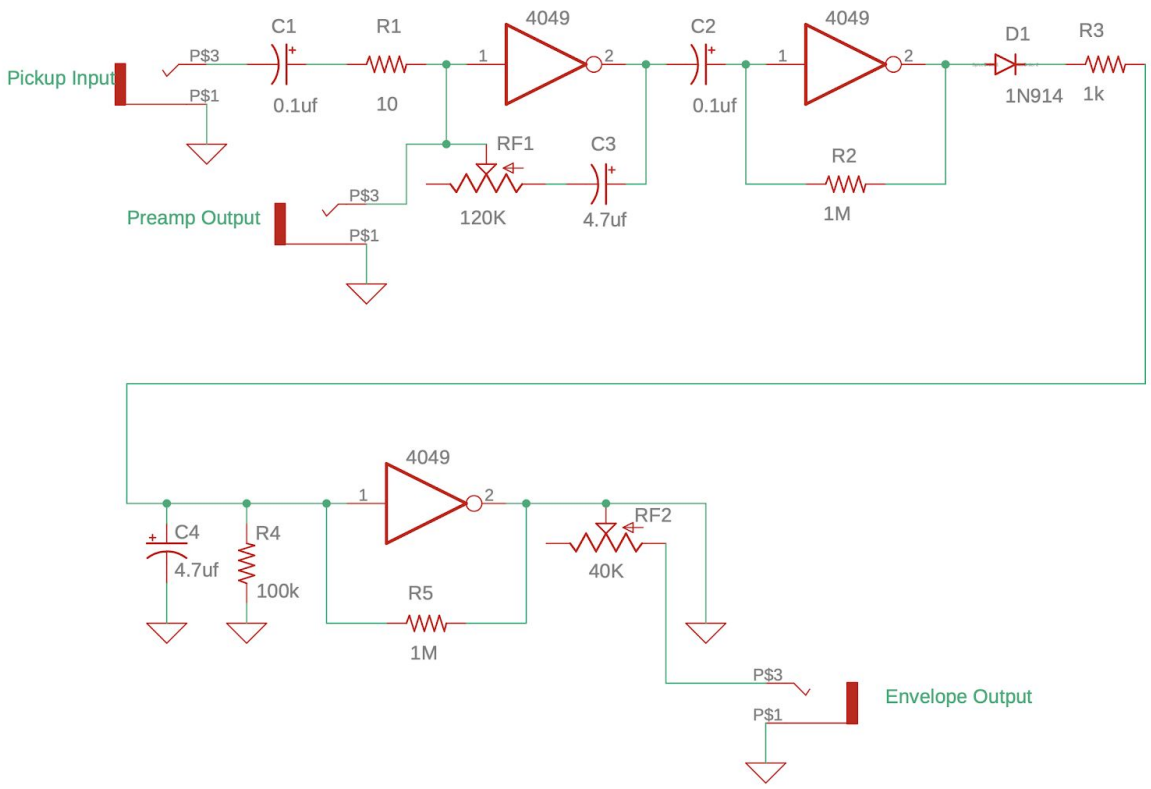
SYSTEM BLOCK DIAGRAM



VIOLA BODY FEATURES

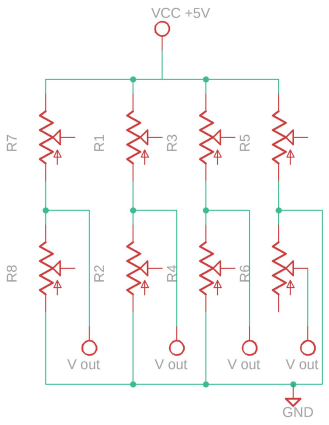


ENVELOPE FOLLOWER / PREAMP CIRCUIT*



*Notes:
-based on a design by Nic Collins: *Handmade Electronic Music*, Routledge, 2009, page. 193
-the envelope follower for the Electronic Viola comprises four of these designs, one for each string

FINGERBOARD CIRCUIT



Etudes & Vignettes for Electronic Violas
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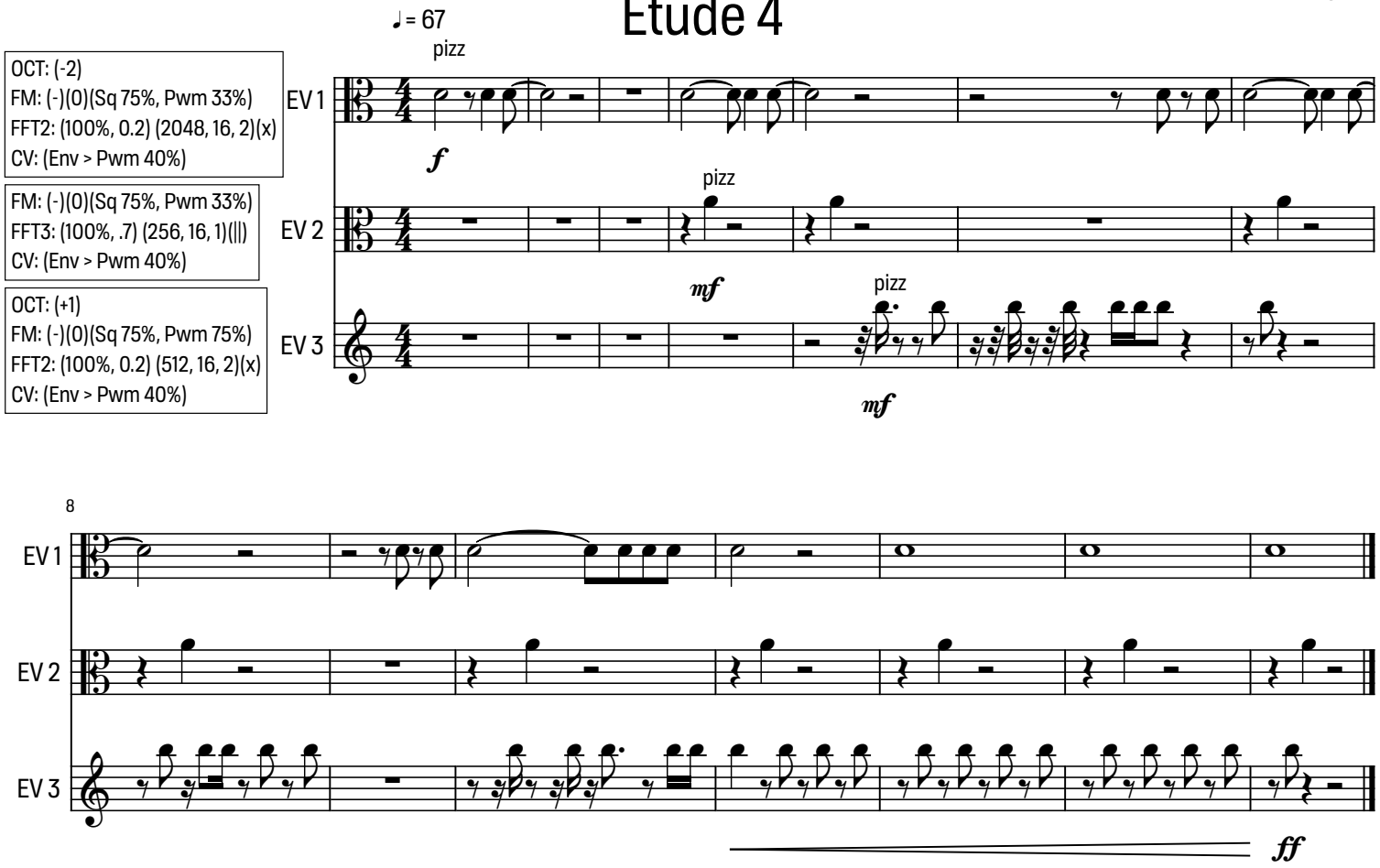
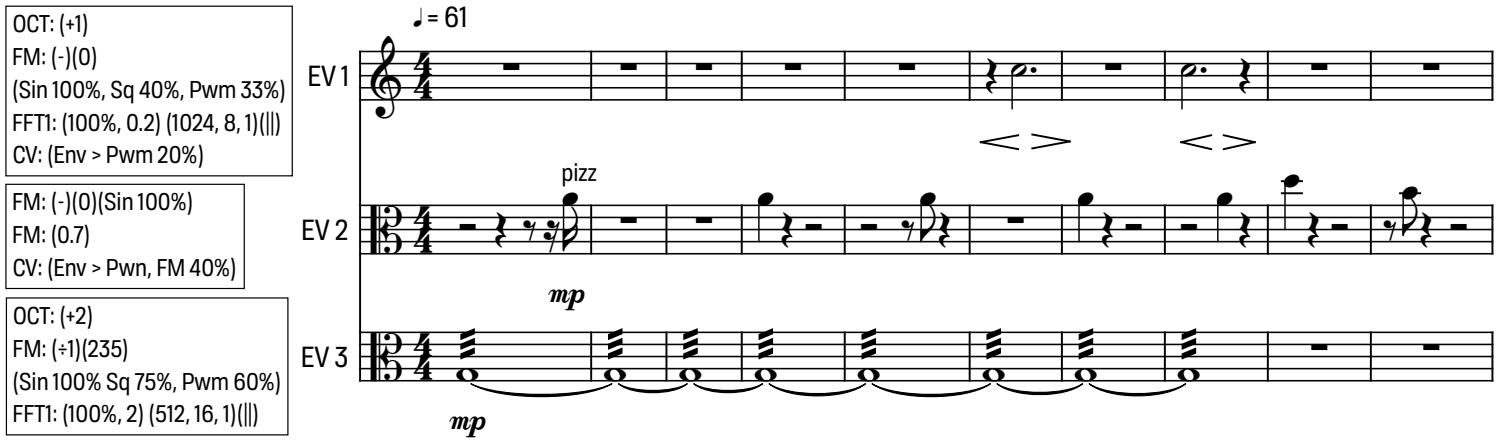
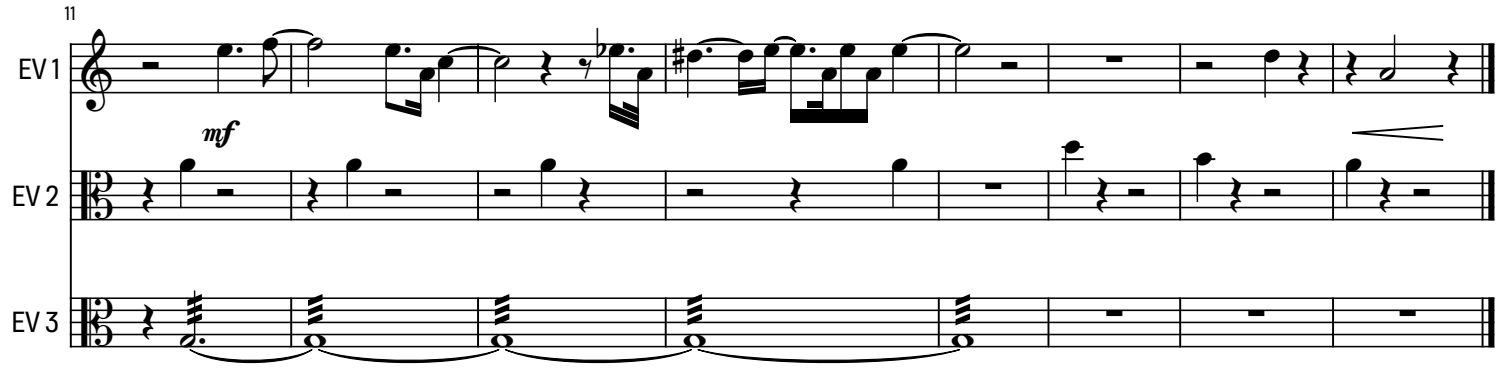
Etude 4

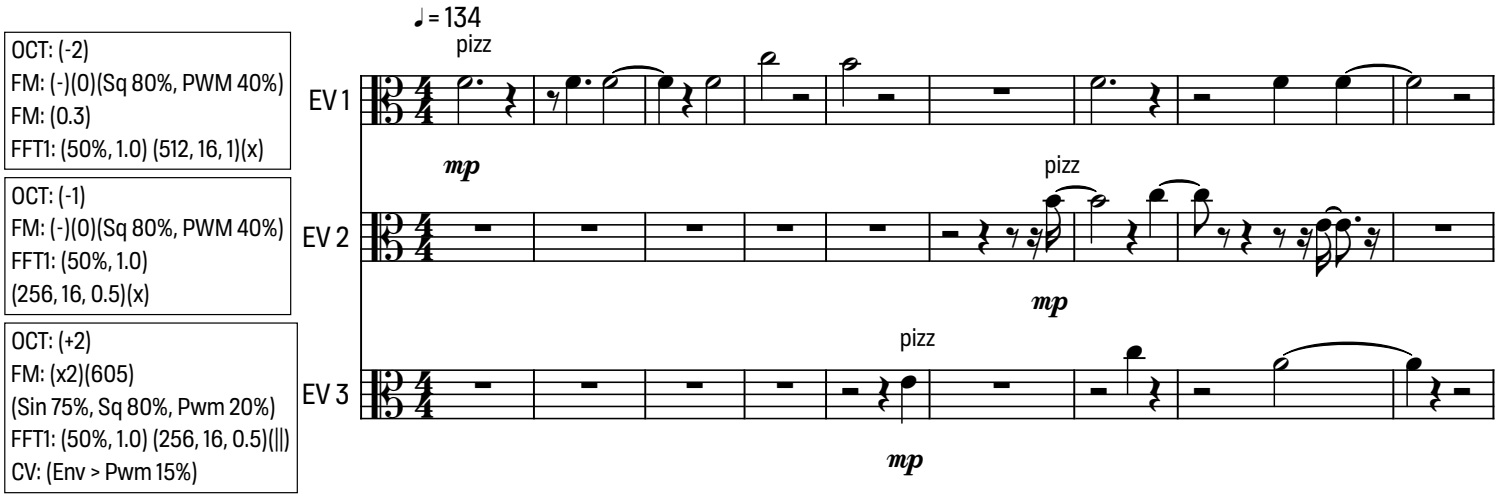


Vignette 1





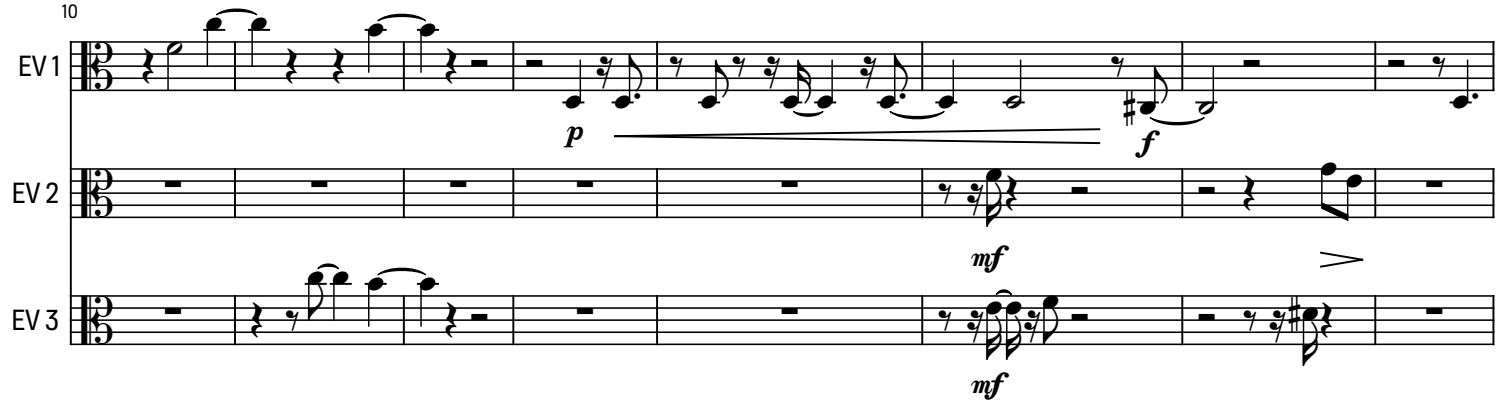
Etude 2C

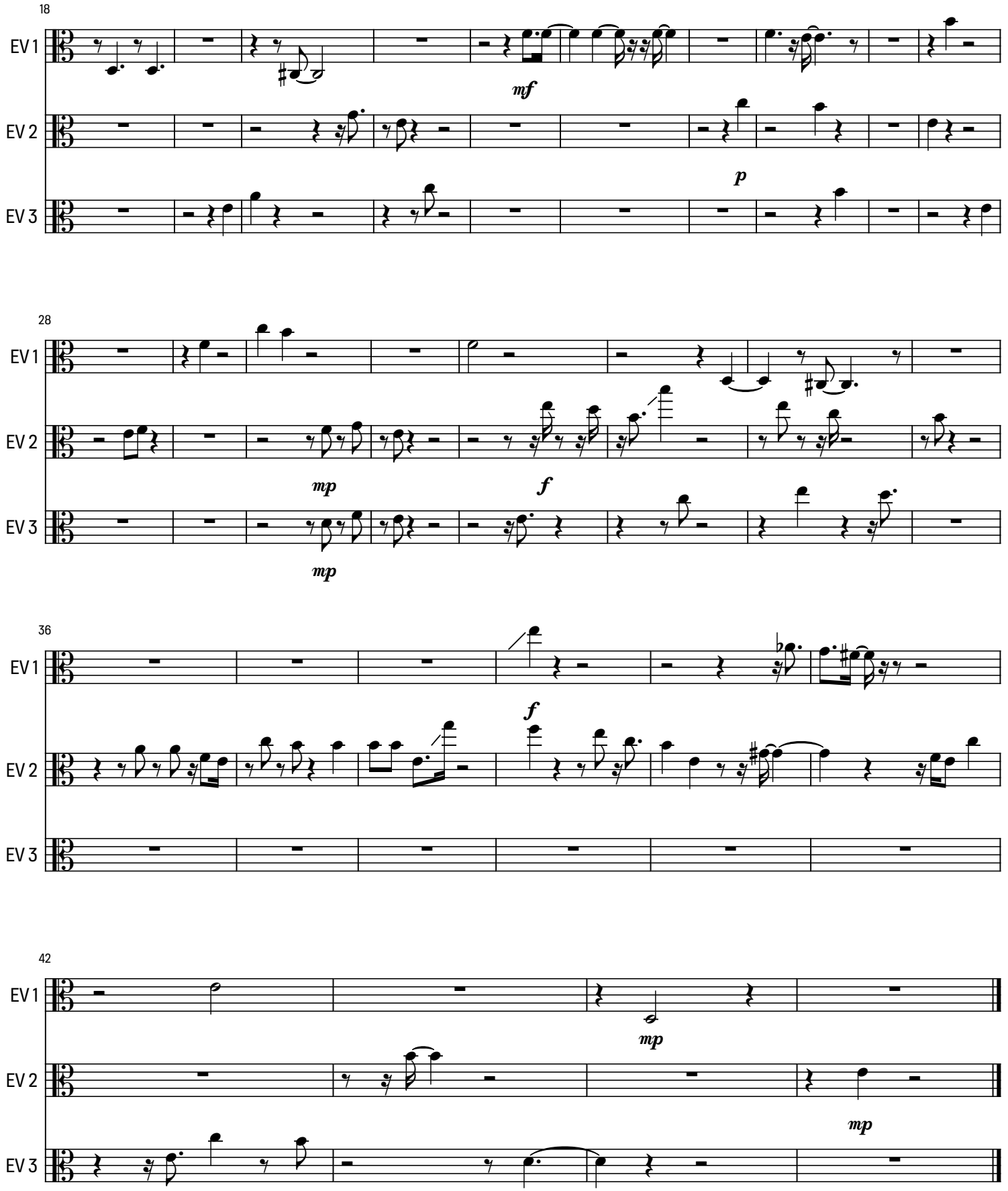


OCT: (-2)
FM: (-)(0)(Sq 80%, PWM 40%)
FM: (0.3)
FFT1: (50%, 1.0) (512, 16, 1)(x)

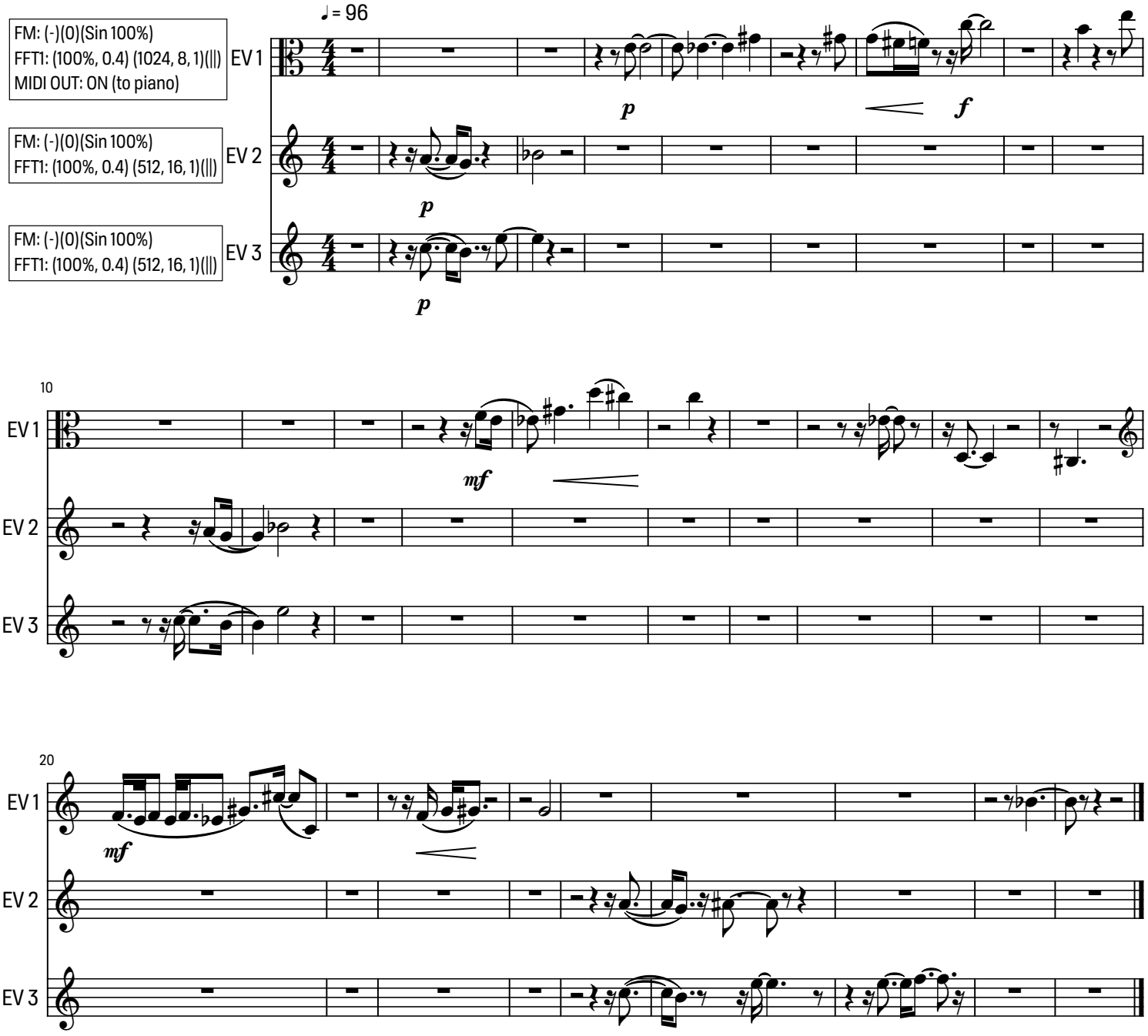
OCT: (-1)
FM: (-)(0)(Sq 80%, PWM 40%)
FFT1: (50%, 1.0)
(256, 16, 0.5)(x)

OCT: (+2)
FM: (x2)(605)
(Sin 75%, Sq 80%, Pwm 20%)
FFT1: (50%, 1.0) (256, 16, 0.5)(||)
CV: (Env > Pwm 15%)

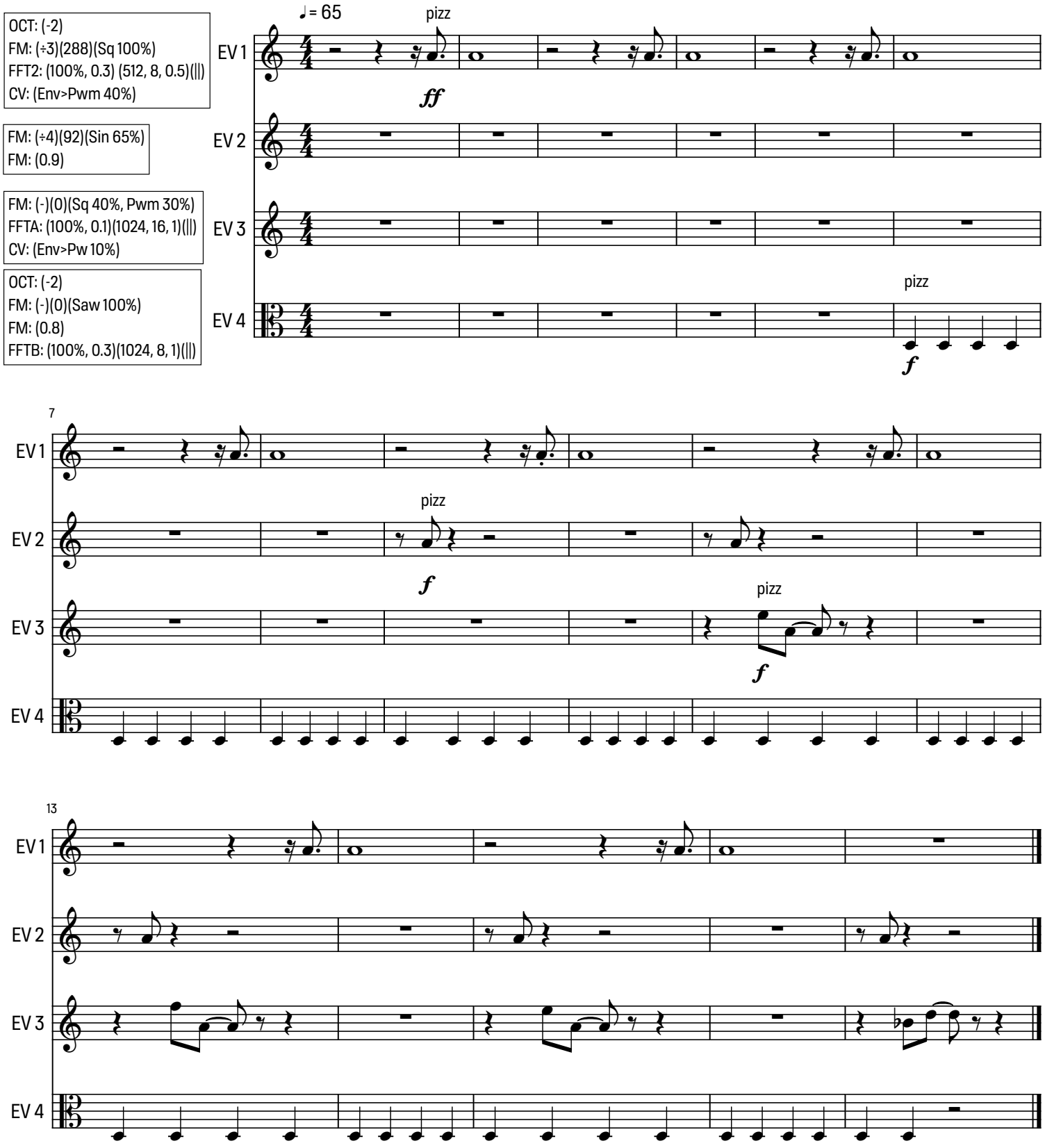




Vignette 2C



Etude 1



Vignette 3